



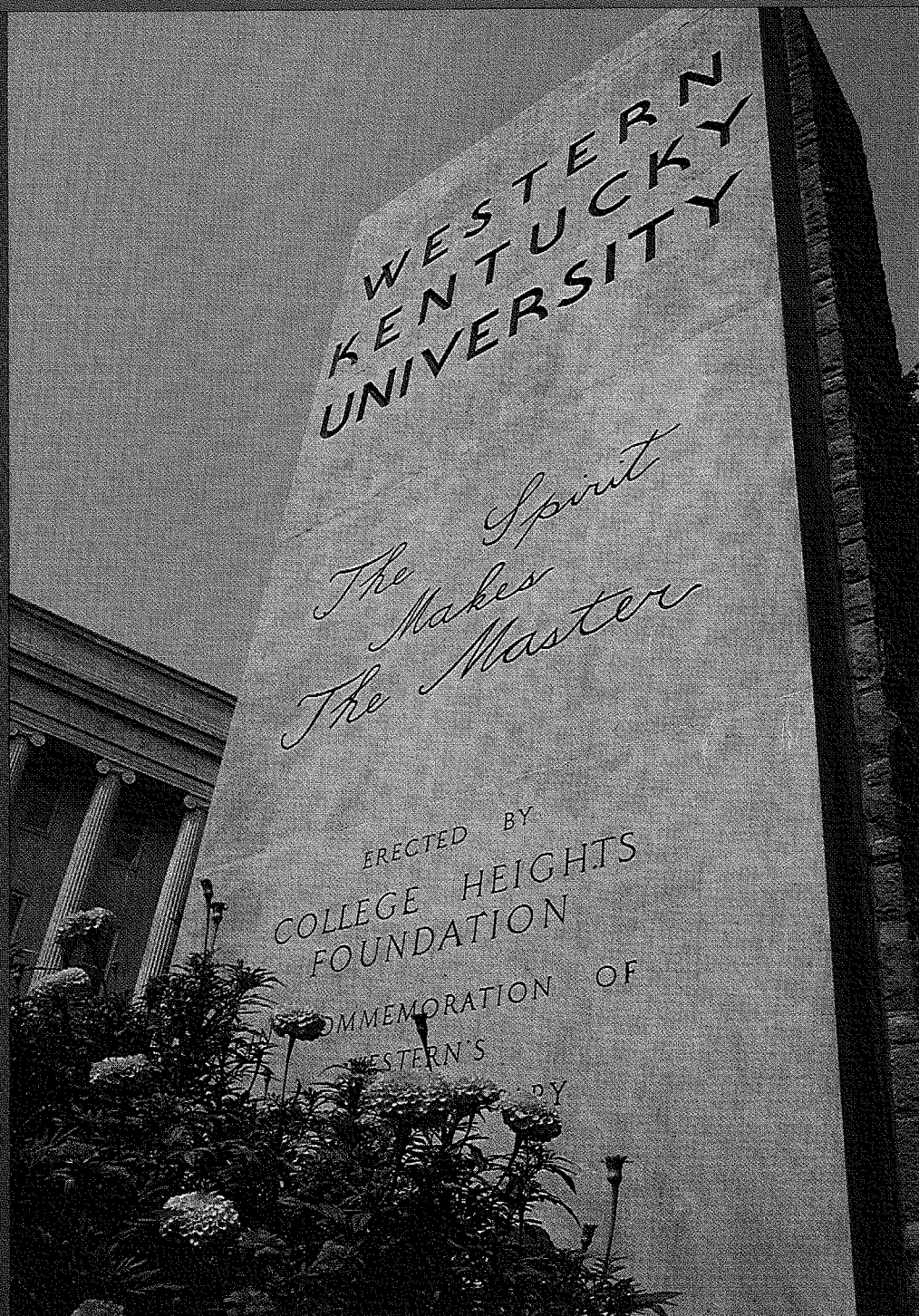
GRADUATE APPLICATIONS MUST BE ACCOMPANIED BY A \$20 NON-REFUNDABLE APPLICATION FEE. FORMER GRADUATE STUDENTS AND/OR PREVIOUS APPLICANTS ARE EXEMPT. THE APPLICATION IS LOCATED INSIDE THE BACK COVER OF THIS CATALOG.

**G**raduate

Studies

Issue

1993 • 1995



# WESTERN KENTUCKY UNIVERSITY

## Accreditation

Southern Association of Colleges and Schools

## Membership

The Council of Graduate Schools in the United States  
Association of State Colleges and Universities  
American Association of Colleges for Teacher  
Education

American Association of University Women

American Council on Education

## Professional Accreditation

National Council for Accreditation of Teacher  
Education

National Association of Schools of Music

American Chemical Society

Council on Accreditation of the National Recreation  
and Park Association

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All statements in this publication are  
announcements of present policy only and are subject  
to change at any time without prior notice. They are  
not to be regarded as offers to contract.

## POLICIES AND PROCEDURES

The Office of Graduate Studies and all colleges  
and departments of the university have policies and  
procedures that must be met before a degree is  
granted. These requirements are described in this  
bulletin and in program documents provided by the  
academic departments.

## Student Responsibilities

The student is responsible for becoming informed  
and for fulfilling all degree-related requirements. If  
requirements for graduation have not been met, the  
degree will not be granted. In no case will a regulation  
be waived or an exception granted because a student  
pleads ignorance of the regulation.

## Appeal of Graduate Regulations

Requests for waiver of the regulations stated in  
this bulletin must be presented to the Graduate  
Council. The student must first present the request in  
writing, along with supportive documentation, to the

department head in which the program of study is  
located. The request is then considered by the  
department and college committees before being  
acted upon by the Graduate Council.

## Student Complaint Procedure

The University student complaint procedure for  
resolving complaints concerning a faculty member is  
outlined in the general University bulletin.

## STATEMENT OF COMPLIANCE

Western Kentucky University does not  
discriminate on the basis of race, color, national  
origin, sex, age, religion or disability, and provides,  
on request, reasonable accommodations including  
auxiliary aids and services necessary to afford an  
individual with a disability an equal opportunity to  
participate in all services, programs and activities.

If you have experienced discrimination in such ed-  
ucational programs or activities, written inquiries about  
procedures that are available at the University for  
consideration of complaints alleging such  
discrimination should be directed to the President's  
Office, Western Kentucky University, Bowling Green,  
Kentucky 42101. Inquiries about such alleged  
discrimination also may be made directly to the  
Director, Office of Civil Rights, United State Department  
of Health, Education, and Welfare, Washington, D.C.  
20201.

Inquiries about employment discrimination may be  
directed to the Affirmative Action Officer, Western  
Kentucky University, Bowling Green, Kentucky 42101,  
or The Commission on Human Rights, Commonwealth  
of Kentucky, 828 Capital Plaza Tower, Frankfort,  
Kentucky 40601, or Equal Employment Opportunity  
Commission, 1800 G Street, NW, Washington, D.C.  
20506, or Office of Federal Contract Compliance,  
United States Department of Labor, Washington, D.C.  
20210.

## Directory (Area Code 502)

Departmental office numbers listed  
in the respective departments

Graduate Studies .....	745-2446
College of Arts, Humanities, and Social Science .....	745-2344
College of Business Administration .....	745-3893
College of Education and Behavioral Sciences .....	745-4662
College of Science, Technology, and Health .....	745-4448
Registrar's Office .....	745-3351
Certification Office .....	745-4300



## Testing Arrangements

(GRE, etc.)	745-3159
Financial Aid	745-2755
Veterans Educational Benefits	745-5482
Extended Campus Programs	745-5305
Owensboro	684-9797
Glasgow	651-6399
Fort Knox	942-8381
Housing Office	745-4359



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## THE UNIVERSITY

### Historical Sketch

Western Kentucky State Normal School, Bowling Green, was established by an act of the 1906 Kentucky General Assembly. Prior to 1906, there had existed in Bowling Green the Southern Normal School and Bowling Green Business University, whose president was Dr. Henry Hardin Cherry. In 1907 the Southern Normal School was transferred to the state, and Dr. Cherry was selected as the first president of Western Kentucky State Normal School. In 1922 the Kentucky Legislature changed the school's name to Western Kentucky State Normal School and Teachers College and empowered the College to award degrees to its graduates. In 1930 the school's name was changed to Western Kentucky State Teachers College, and in 1948 to Western Kentucky State College. The Kentucky General Assembly in 1966 designated Western as a University and changed the name to Western Kentucky University.

### THE OFFICE OF GRADUATE STUDIES

#### History

Western began offering the Master of Arts Degree in 1931. This program was discontinued in 1936 but was resumed in 1941. The granting of university status in 1966 gave the Graduate School (renamed the Graduate College in 1969) increased opportunity both to strengthen existing programs and to offer an even wider choice of programs. In 1992 the responsibility for administration of graduate programs was assigned to the Office of the Vice President for Academic Affairs and faculty in academic departments offering graduate programs.

## Administration

The Associate Vice President for Academic Affairs and Director of Graduate Studies is charged with the administration of policies regulating and relating to graduate studies. It is his/her responsibility to certify that candidates have fulfilled requirements for advanced degrees.

The Graduate Faculty consists of faculty members recommended by department heads and college deans, and approved by the Graduate Council.

The Graduate Council, which represents the Graduate Faculty, recommends and reviews policies pertinent to the operation of the Graduate Studies area. In addition, it reviews and makes recommendations regarding new graduate programs and alterations of existing programs. Requests for waiver of regulations stated in this bulletin must be presented to the Graduate Council.

### CULTURAL, RELIGIOUS AND RECREATIONAL OPPORTUNITIES

#### Music

The Department of Music sponsors a number of musical presentations including seasonal concerts. In addition, many faculty and student recitals are given throughout the year.

#### Theatre

The Department of Theatre and Dance and the Western Players present a series of programs during the academic year. Summer Theatre programs are provided. A small fee is charged for admission to major productions; however, there is no admission charge for one-act plays produced by the Department.

## Art

The Department of Art has a gallery in the Ivan Wilson Fine Arts Building where a display is usually on exhibit.

### Lecture Series

The Rodes-Helm Lecture Series was endowed in 1961 by Mr. and Mrs. Harold Helm of Montclair, New Jersey. The lecture series is named in honor of the late Judge John B. Rodes, father of Mrs. Helm, and in honor of Miss Margie Helm, sister of Mr. Helm and former Director of Library Services at Western. Income from this endowment is used to bring three or four distinguished lecturers to the Western campus each year.

### Planetarium

The Hardin Planetarium, adjacent to the Thompson Science Complex, uses a Spitz A3P projector under a 40 foot dome to create realistic views of the night sky. The chamber seats 150. During the academic year presentations are given for school groups by reservation, and for the general public on selected dates. The Hardin Planetarium is closed during the summer months.

### Intramural and Recreational Sports

Students, faculty and staff members are encouraged to join and use the Raymond B. Preston Health and Activities Center. The Preston Center offers: 6 basketball/volleyball courts, 9 racquetball courts, 1/7 mile indoor track, aerobic/dance studio, weight room (with free weights, Climbmex, Cybex rowers and exercycles, Precor exercycles, Nordic Track, Cybex and Pyramid selectorized weight machines, and a Treadwall), and a beautiful pool including hot tub and sauna. All facilities in the Preston Center are used for open

recreation, intramural sports, physical education classes, and recreation classes.

The Intramural Sports calendar includes flag football, basketball, softball, volleyball, indoor soccer, and many more sports.

Preston Center houses the WKU Outdoor Rental and Adventure Center where camping equipment, canoes, diving equipment, outdoor videos, tandem mountain bikes, and more, are available for minimal rental fees. The center also sponsors scuba diving classes, ski trip, rafting trips, and more is planned.

### **Religious Life**

Since Western Kentucky University is a state-supported institution, it is non-denominational. Religious activities are, however, available to students.

## **UNIVERSITY LIBRARIES**

Five library and resource centers serve the academic community at Western Kentucky University. They are (1) Helm-Cravens Library, (2) Kentucky Library and Museum, (3) Science Library, (4) the Educational Resources Center, and (5) Glasgow Campus Library. The University Libraries collection includes more than one-half million books, 100,000 volumes of periodicals and one-quarter million government documents. Approximately 11,000 books are added to the collection along with over 5,000 subscriptions annually.

The Helm-Cravens Library constitutes the main library complex. Located near the center of campus, it houses the major portion of the University Libraries circulating book collection, as well as the main reference area and periodicals collection, the government documents and law collections, the main circulation services and reserve

desks, the Extended Campus Library Services office, and the technical services unit for the University Libraries.

The Kentucky Library and Museum is located in the Kentucky Building. Also in the Kentucky Building are the Manuscripts and Folklife Archives collections. There study and research collections are non-circulating and consist of both printed materials and museum collections relating to all phases of Kentucky life. The Museum is involved year-round in events such as exhibits, workshops, and lectures designed for the University community and the general public.

The Educational Resources Center is located on the third floor of Tate C. Page Hall. The Ed Center provides information required for academic and enrichment activities and serves as a repository of many and varied types of curriculum and professional materials and resources in support of the departments in the College of Education and Behavioral Sciences.

The Science Library located in the central wing of the Thompson Science Complex provides books, periodicals, and reference and circulation services necessary for instruction and research in the Ogden College of Science, Technology and Health.

The Glasgow Campus Library, located on the WKU Glasgow Campus, gives reference assistance to students at the Glasgow campus.

The University Libraries provide the following special services to graduate students: graduate carrels, for those engaged in thesis or research projects; interlibrary loan service at no charge; and online computer search service at cost. Students taking classes at remote locations through the WKU Extended Campus program may use the WKU Libraries special toll-free number to request materials or reference assistance.

Printed guides describing the many services and collections

available in the WKU Libraries may be obtained at each service area or branch.

### **Archives**

The Archives is a repository for University records required for administrative functions and historic study of the institution and its genealogical antecedents.

## **TECHNOLOGY AND TELECOMMUNICATIONS**

Technology and Telecommunications supports the University's missions through the application of state of the art information technologies. A part of Administration and Technology, the division's principal areas are Academic Computing and Research Services (ACRS), Computer and Informational Services (CIS), Educational Television Service (including WKYU-TV), Media Services, Microcomputing Support Center, the Public Radio Service (WKYU-FM, WDCL-FM, WKPB-FM, AND WKUE-FM), and Telephone Communications.

### **Academic Computing And Research Services**

Computing resources and consultation services on computing and research are provided by the Office of Academic Computing and Research Services.

The Student Technology Center located on the second floor of the Helm Library is the principal service facility and provides student access to both computer and media resources. Microcomputers with popular applications programs and terminals providing access to the IBM mainframe and Digital Equipment Corporation VAX computers are located there and in seven other general access computing laboratories scattered across the campus. Media resources at the Student Technology Center include



videotape, audio cassette, records, and multimedia computers. Faculty may place materials on reserve for student access. For more information call 745-2946. Operating hours approximate those of the library.

The wide variety of programming languages and other programs available support the vast majority of research projects. Highly specialized computing resources, including a super computer, are available through the Kentucky Educational Computing Network. BITNET and INTERNET connections through this network allow communications with hundreds of other colleges and universities. Additionally, individual colleges and departments operate a number of computing laboratories tailored to meet their specific instructional and research needs.

While the principal responsibility for research design and data analysis rests with the individual researcher, consultation on design, statistical analysis, and computer use is available to students and faculty. Western's subscriptions to the Interuniversity Consortium for Political and Social Research and other data archives provide a rich source of research materials.

### **Computer & Informational Services**

Computer and Informational Services - the administrative computer center and data communications -- has a major role in Western's integrated information systems. The office provides: information technologies and services for all administrative functions and University Libraries; state of the art data communication facilities and services capable of near universal access on and off campus; computing capacity and services for research and instruction as needed to complement Academic Computing and Research Services; system analysis, programming and operational

services for University administrative applications; and, consultation, expertise and facilities for developing, maintaining and using a longitudinal base of data for administrative and research purposes.

The mainframe computer, located on the third floor of the Wetherby Administration Building, is operated 24 hours a day seven days a week. Operators are on duty 109 hours per week and the computer runs unattended the remainder of the time. Approximately 350 work stations and printers are directly attached to the computer, locally or through the campus network, and 128 ASCII ports are available for remote users. Services provided include, Systems Analysis, Programming, Program Maintenance, Report Programming, PC to Mainframe Application Support and Campus Data Network Services.

### **Educational Television Services**

Located in the Robert Cochran Wing of the Academic Complex, the Educational Television Service provides a variety of services in support of the University's missions.

The Educational Television Service operates interactive distance learning facilities linking WKU with the Owensboro and Glasgow extended campus classroom sites. A third distance learning facility in Elizabethtown is planned for 1993-1994.

ETS operates teleconference down link facilities for the use of the University and community, and produces satellite teleconference for uplink, either on-site or through KET Starchannels.

A professional staff utilizes a state of the art facility in the production of television programs for classroom instruction, statewide distribution on the KET network as well as for national distribution to public television stations. The unit's productions have regularly been

recognized by regional and national awards. Western's own public television station -- WKYU-TV -- provides telecourses for credit as well as the only local public television service for south central Kentucky. It is the only Kentucky public television station licensed to a University, and one of only two local stations.

ETS/WKYU-TV provides television laboratory and instructional facilities for students in the University's Broadcasting and Communication program. Nearly 300 students per year use these facilities. ETS also operates WesternCable which serves all residence hall rooms with educational and entertainment cable programming.

### **Media Services**

Located in the center of the first floor of Tate C. Page Hall with regular operating hours of 8:00 am to 4:30 pm, Monday through Friday, Media Services provides a variety of instructional support services for faculty, staff, graduate assistants and students. Campus Services provides media equipment, films, and videotapes throughout the campus for instructional use. Pickup or delivery service is provided. In addition, each classroom building on campus has one or more equipment rooms containing a 16mm projector and/or a VHS VCR and monitor. Orientation of faculty in the use of equipment is provided upon request.

The Faculty Media Center, located in Tate C. Page Hall is equipped with Macintosh and Apple II computers for teachers' use in the production of instructional and professional materials. The services available within the Center include computer desktop publishing, basic graphic production (such as overhead transparencies), VHS video editing and photographic copying.

A staff of student assistants is

available during operating hours to provide assistance to users. For more information call 745-3754.

The University instructional program is served with over 7,500 videotapes and 16mm films from the reserved collection of materials owned by the University. This collection includes media from the Third District Film and Video Library, a cooperative organization of twenty public school districts in the state. Media Services will provide catalogs of current holding upon request and assist faculty members in finding titles from other sources.

In addition to the Faculty Media Center, Media Services maintains a professional instructional production facility for faculty members. A variety of photographic, graphic, and audio/video consultation, design and production service are provided.

#### **Public Radio Service**

Western's Public Radio Service, through its four radio stations -- WKYU-FM, Bowling Green; WDCL-FM, Somerset; WKPB-FM, Henderson/Owensboro; and WKUE-FM, Elizabethtown, provide the highest quality music, information news and public affairs programs 24-hours per day to over sixty percent of the Commonwealth, plus extensive areas of north-central Tennessee and southern Indiana.

An important aspect of Western's Public Radio Service is the access it provides to develop and maintain awareness of the resources of Western Kentucky University. This awareness is developed through the participation of faculty, staff and students in special programs; through the involvement of special campus guests in programs; and through the regular reporting of news relevant to activities at the University.

This unit also operates the student radio station -- WWHR 91.7

MHz -- in conjunction with the Department of Communications and Broadcasting. WWHR serves as a laboratory for students pursuing a career in broadcasting and serves the student body with a college oriented music format.

#### **Microcomputing Support Center**

The Microcomputing Support Center, located in Room 205, Science and Technology Hall, provides comprehensive support of microcomputing for academic and administrative offices. A professional staff supports a range of services including analysis and recommendations for potential applications, training, installation and repair and consultation regarding specific applications and problems. The Center may be reached at 745- 5382.

#### **Telephone Communications Services**

Western Kentucky University owns and operates an AT&T System 85 digital non-blocking telephone switch located in Van Meter Hall. The switch presently serves approximately 4,800 lines. All faculty and staff offices have telephone services. Residence halls have one telephone jack per room, and the student furnishes the telephone instrument. Long distance service is provided for faculty, staff, and students through outside vendors.

### **NON-ACADEMIC SERVICES**

#### **Career Services Center**

The Career Services Center is charged with an overall mission of conceptualizing, developing and delivering a wide variety of developmental services and programs designed to assist students enrolled at Western Kentucky University as they move toward the successful completion of

their educational and career objectives. In order to accomplish this mission, the Center provides the following:

A. Career Advising: Career Advisors assist Western students in developing and formulating realistic educational and career objectives and in identifying resources and strategies which will aid in resolving their career and graduate study concerns.

B. Career Development Sessions: Videotaped presentations provide information on preparing resumes, interviewing and specific employers. Members of the staff are available to faculty, student and alumni groups to speak on a variety of career education topics. A video camera is available for students and alumni for use in practice interviews.

C. Career Library: The Career Library is designed to make available pertinent resources relating to career planning, employer literature, graduate and professional studies, manpower trends and other related placement information. All students are invited to become familiar with these library materials which have been conveniently and systematically arranged for optimum use. The staff will assist students in locating and utilizing these materials as well as directing students to the Margie Helm Library for additional resources.

D. Cooperative Education/Internships help students:

- \*Enhance their education by gaining experience in their career fields before graduation.

- \*Gain career awareness and the opportunity to test career choice.

- \*Earn funds to help finance educational expenses.

- \*Increase employability after graduation.

- \*Receive academic credit for career related work experience.

- \*Increase interest in and comprehension of academic course work.

\*Develop confidence, maturity, responsibility and skills in human relations.

Students are eligible for cooperative education placement if they have a minimum grade point average of 2.0 and are pursuing a degree on a full-time basis.

**E. MESA:** A highly innovative computerized employer matching program is available free of charge to all graduating students/alumni and employers. Employers, graduating students and alumni are provided data on computerized printouts of all job matches made.

**F. Campus Interviews:** Organizations send representatives to Western to interview registrants for vacancies that exist in their respective organizations. All graduating students are encouraged to periodically check with the office regarding detailed information about interview procedures and dates. Graduating students may sign up for interviews on the interview sign-up board located in room 216, Cravens.

**G. Job Vacancy Information:** Notices of current position vacancies and new job openings received are posted on bulletin boards across campus. Binders containing job vacancy notices are maintained in the Career Library.

**H. Placement Files:** This service provides registrants with a convenient centralized service for the collection, reproduction and dissemination of the placement file. Placement files are maintained and copies are forwarded to any potential employer and/or graduate school at the request of the registrant or employer.

For more information Call: Career Services Center - Cravens, 216, 745-2691/3095

### Counseling Services Center

The Center, located in Room 408 of Tate Page Hall (CEB), provides personal counseling

services and is responsible for the administration of national testing programs. Contact the Center for appointments and for test information.

### Housing Facilities

WKU students may choose from 18 residence halls - 4 for men, 10 for women, and 4 co-residential facilities. Graduate areas are available for both men and women, but graduate students may choose to live in any of the halls in which they are qualified.

To apply for housing, students need to submit a Residence Hall Housing Agreement, along with a \$75.00 deposit to the Office of Housing. Room Assignments are made based on date of receipt of the Housing Agreement.

Students are encouraged to forward their completed Residence Hall Housing Agreement (with the deposit) to the Department of University Housing, Western Kentucky University, Bowling Green, KY 42101, immediately upon applying for admission.

### Food Services

Campus Food Service is operated by Marriott Corporation. Marriott offers an incredible variety of restaurants which include: The Marquis Club, Subway, Unicorn, Taco Bell, The Hill Topper Inn, Strutters Chicken, The Firehouse, Pizza Hut and The Little Red Wagon. To enjoy these restaurants, students have two meal plan programs to choose from. The most economical of the two is the Marquis Club memberships. This program enables students to purchase memberships that give them a certain number of weekly meals (there are several options to choose from). These memberships, which are encoded on a Super Card, also include many club benefits. The second program is

called Super Card Dollars. This enables students to deposit money into a "Food Account". This money is encoded on a Super Card which can then be used as cash at any campus restaurant. When a purchase is made, the purchase price is deducted from your account. For more information, call (502) 745-2416.

### FINANCIAL ASSISTANCE

#### Loans

**Federal Perkins Loan.** This long-term loan is designed to assist the student whose family income and total assets place limitations upon other sources (bank loan, family savings, etc.) of educational funds. The loan is interest free while the student is in school and charges only five percent interest during the repayment period. In addition to the interest-rate advantage, the borrower may discount 15 percent each year, up to 100 percent of the total loan, by teaching in an elementary or secondary school in an economically deprived area.

**Federal Stafford Loan.** This long-term loan may be secured through the student's local bank. Student applicants who qualify for interest subsidy begin repayment after expiration of a six months grace period after student status ceases.

**Federal Supplemental Loan for Students.** A non-need based loan program for students who do not qualify for the National Direct Student Loan or the Guaranteed Student Loan. Repayment is long-term.

#### Student Employment

The University participates in both work-study and a regular program of employment whereby a student may work 15 hours per week during the regular term of study, providing such work is needed to balance the college ex-



pense budget. The work-study program offers summer employment which permits the student to work 40 hours per week. Eligibility to participate is based on family income. Assistance in obtaining off-campus employment is also available.

**Application Information.** Application forms for financial assistance are available from: Department of Student Financial Aid 1526 Russellville Road Bowling Green, KY 42101-3576

For maximum consideration, apply before April 1.

### **Research Grants**

Graduate students are invited to submit proposals for University research grants. Information as to application deadline and required proposal form may be obtained from the Office of Graduate Studies.

### **Incentive Grant Program for Indiana and Tennessee.**

Western Kentucky University offers an Incentive Grant Program to qualified graduate students who are residents of specific counties in Tennessee and Indiana. Residents of Macon, Robertson, and Sumner counties in Tennessee will automatically receive a tuition waiver for the out of state portion of registration fees.

Qualified students for the incentive grant will pay the in-state registration fees plus a per credit hour charge not to exceed \$200 per term for full-time students. Fees are subject to change each fall semester.

Graduate students admitted to WKU in good standing are eligible for this grant. Upon receipt of an official transcript showing the completed undergraduate degree, eligibility will be determined. Transient students will be required to have the visiting student form (Form H) on file to qualify. Eligibility determined after the end

of the drop/add period will become effective beginning with the next semester of enrollment. For more information, contact the Office of Graduate Studies at (502) 745-2446.

### **Alumni Grants**

An alumni grant is available to qualified non-resident students whose parent, stepparent, legal guardian or grandparent completed a degree or a certified program at WKU. Grant applications are available through the Office of Graduate Studies.

### **Veterans Administration Benefits**

**G.I. Bill.** Students who have had more than 180 days of active service with the Armed Forces after January 31, 1955, or have served less than 181 days but received an honorable discharge for service-connected disability are eligible for educational assistance under the Veterans Readjustment Benefits Act of 1966. Applications are made directly to the Veterans Administration, 545 South Third Street, Louisville, Kentucky.

### **Graduate Assistantships**

Graduate assistantships are available in various departments and service areas to qualified students. Stipends vary depending upon the student's qualifications and duties assigned. In addition to the stipend, the out-of-state portion of the graduate assistant's fees is awarded in the form of a scholarship during the period of appointment. Course load requirements for graduate assistants are stated under "Course Load." Since graduate assistants have responsibilities for their own studies and for services to the University, they are not permitted to hold an assistantship while employed elsewhere.

Graduate assistants have professional responsibilities to the University; therefore, they are

expected to familiarize themselves with the University policies and responsibilities and to fulfill their obligations in this respect. Stipends are paid bi-weekly.

The applicant for a graduate assistantship must have been admitted to a graduate program, must have an overall undergraduate grade point average of at least 2.8 or a score of not less than 1350 on the General (verbal, quantitative, and analytical combined) Test of the Graduate Record Examination, and should apply prior to February 1. The assistantship application and three letters of recommendation (to be requested by the student, not the Office of Graduate Studies) must be submitted to the Director of Graduate Studies. Appointments are based upon the recommendation and approval of the head of the department and the dean of the college in which the assistantship is granted.

Graduate assistant appointments may be terminated upon failure of the appointee to maintain a grade point average of at least 3.0 in all coursework taken during any enrollment period or upon failure to maintain conduct compatible with the University's function as an educational institution as defined in "Hilltopics, A Handbook for University Life," an annual publication of the Office of the Dean of Student Life.

### **Minority Assistantship Program**

Consistent with the "Kentucky Plan for Equal Opportunities in Higher Education", the University is committed to raising the proportion of African American Kentuckians receiving graduate degrees. Graduate assistantships are available.

### **Senior Citizens' Scholarship**

Person 65 years of age and older are granted tuition scholarships for any college class for which they enroll, whether for

credit or audit.

## **GENERAL INFORMATION**

### **Academic Year**

The University provides a year-round instructional program consisting of the fall and spring semesters and a summer term.

### **Registration Procedures**

Computer generated registration cards are issued for the term that the student indicates he or she will begin taking classes. Continual enrollment assures a registration card will be available at registration time. However, cards will be made, in addition, for each graduate student who has been enrolled at any time during the two terms prior to the current one for which he or she is registering.

Advance registration as well as conference center registration is conducted. Contact the Office of the Registrar, Graduate Studies, or one of the four WKU-Centers for information concerning dates.

Students who were previously admitted but were not enrolled during the preceding year must complete a packet request form, obtained from and returned to the Office of Graduate Studies.

### **Schedule Changes**

The University reserves the privilege of canceling any course which has insufficient enrollment to justify its continuation. Other adjustments in the schedule may be made when necessary.

### **Withdrawal From the University**

For various reasons it is occasionally necessary for a student to withdraw from the University. In such cases the student should report to the Office of the Registrar to initiate the withdrawal procedures. Students leaving the institution without an

official withdrawal will receive failing grades in all courses in which enrolled and endanger their future status in the institution. Students withdrawing after the eighth week of the semester or the fourth week of a bi-term or comparable period during the summer session, must consult with their instructors as to the withdrawal grade. The official date of the withdrawal is the date written notification is received in the Office of the Registrar. Students wishing to return to Western at a later date must submit an application for readmission prior to the deadline for submitting applications.

### **Student Schedule Changes**

Changes in schedules may be made only within the first six class days of a semester or the first three days of a bi-term if such changes involve entering other classes. Courses which do not meet at least twice during the first six class days may be added up through, but not past, the day of the third class meeting.

During a semester, a student may withdraw from a course with a grade of W or F under the following conditions. It is recommended that faculty members inform students of this "W" period deadline.

A. A student is permitted to withdraw from any course with a grade of W through the 8th week of class.

B. After the 8th week of class, any student dropping a course receives an automatic F. However, when there are extenuating circumstances, and at the discretion of the faculty member, and the department head, the student may be permitted to withdraw with a W instead of an F.

During a bi-term a student may drop a course with a grade of W or F under the following circumstances:

A. A student is permitted to withdraw from any course with a grade of W through the 4th week of

class;

B. After the 4th week of class, any student dropping a course receives an automatic F. However, when there are extenuating circumstances, and at the discretion of the faculty member, and the department head, the student may be permitted to withdraw with a W instead of an F.

Students should check the class schedule bulletin each semester for specific dates.

### **Extended Campus**

A large number of courses is offered in each of the three WKU-Centers, and in other service locations.

Registration is conducted on a schedule similar to that of regular campus registration. Admission information, registration materials, and course offerings are available at each of the WKU-Centers.

Any questions may be directed to the Dean of Academic Services, WKU, Bowling Green, KY 42101 (502) 745-5305, or the appropriate WKU-Center:

Ft Knox - (502) 942-0737

Glasgow Campus - (502) 651-5399

Owensboro - (502) 684-9797

### **Course Numbering System**

**500-700:** Courses numbered 500 and above are open only to graduate students. For the master's degree, all the credits except a maximum of 12 hours of 400G must be in graduate only (500-700 level) coursework. All hours of the specialist degree program must be earned in courses open only to graduate students.

**400G:** Upper division undergraduate courses which are numbered at the 400-level and have a "G" designation (e.g. Eng 401G) may be taken for graduate credit. In these courses, graduate students

are expected to complete additional course requirements as prescribed by the instructor. A maximum of 12 hours of 400G coursework may be used on a master's degree program and no 400G courses may be applied to the specialist degree.

**300:** Courses numbered at the 300-level are for undergraduate credit and cannot be taken for graduate credit.

(Exceptions to the above rules may be granted upon approval by the Graduate Council and the concurrence of the Academic Council.)

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### GRADUATE FEES

Spring or Fall Semester  
Full-time Students  
(per semester)

Resident - - \$842.00

Non-Resident - - \$2322.00

Part-time and Summer Students  
(per credit hour)

Resident - - \$89.00

Non-Resident - - \$253.00

Note: Fees are subject to change without advance notice. Graduate students in music should refer to the department section for additional fees.

A minimum of 9 graduate hours during a regular semester and 6 graduate hours during a summer session is required for classification as a full-time student.

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Classification of Residency For Admission And Tuition Assessment Purposes

Necessity And Function:

Public institutions of higher education were established and are maintained by the Commonwealth of Kentucky primarily for the benefit

of qualified residents of Kentucky. The substantial commitment of public resources to higher education is predicated on the proposition that the state benefits significantly from the existence of an educated citizenry. As a matter of policy, access to higher education is provided so far as feasible at reasonable cost to residents of the state. It is the long-standing practice of the Council on Higher Education to require students who are not Kentucky residents to meet higher admission standards and to pay a higher level of tuition than resident students. The commonwealth of Kentucky uses residency requirements to determine items such as voting rights, income tax liability, and employment in certain occupations. The requirements vary in form and substance for each of these uses. The purpose of this regulation is to establish a process and corresponding criteria for the residency classification of students seeking admission to, or enrolled in, public institutions of higher education. Furthermore, it is the intent of the Council on Higher Education that this regulation be interpreted and applied in a uniform manner, as described herein, in determining whether students shall be classified as residents or nonresidents for admission and tuition assessment purposes.

Section 1. Definitions. The language of this regulation on residency classification contains some legal terms as well as everyday terms which have specialized meaning in the determination of residency for admission and tuition assessment purposes. The following definitions apply in the interpretation and application of this regulation.

(1) "academic term" means a division of the school year during which a course of studies is given, e.g., semester, quarter, or intersession.

(2) Enrollment at a college or colleges shall be deemed

"continuous" if the person claiming "continuous" enrollment continues to be enrolled at the same degree level for consecutive terms (excluding summer) since the beginning of the period for which continuous enrollment is claimed. The sequence of continuous enrollment is broken if the student fails to enroll, except under extenuating circumstances beyond the student's control, e.g., serious personal illness or injury, or illness or death of parent.

(3) "Degree level" means one (1) of the following:

(a) Undergraduate (enrollment in courses or programs which result in the baccalaureate degree or lower),

(b) Graduate (enrollment in courses or programs which result in a postbaccalaureate degree other than the first-professional degrees in law, medicine, and dentistry); or

(c) Professional (enrollment in courses or programs which result in a professional degree in law, medicine, or dentistry.)

(4) The term "dependent person" means a person who is unable to meet all of the criteria listed in subsection (9) of this section.

(5) "Documentation" refers to the submission of source documents, e.g., official letters, papers, or sworn statements. As a general rule, evidence cited as the basis for domicile shall be documented, and the required documentation shall accompany the application for residency classification.

(6) The term "domicile" means a person's true, fixed, and permanent home. It is the place where the person intends to remain, and to which the person expects to return without intending to establish a new domicile elsewhere. "Legal residence" and domicile convey the same notion of permanence and are used interchangeably.

(7) "Full-time employment" means employment for at least forty-eight (48) work weeks at an



average of at least thirty (30) hours per week.

(8) "Half-time enrollment" means any enrollment during an academic term which is equal to one-half (1/2) of full time as determined by the governing board of the institution.

(9) The term "independent person" means a person who meets all of the following criteria. An independent person is one:

(a) Whose parent has not claimed such person as a dependent on federal or state income tax returns for the tax year preceding the date of application for reclassification of residency status;

(b) Who demonstrates no financial dependence upon parent(s); and

(c) Whose parents' income is not taken into account by any private or governmental agency furnishing educational financial assistance to the person, including scholarships, loans, and other assistance.

(10) The term "institution", "institution of higher education", or "college" refer to all institutions, public or private, offering instruction and conferring degrees beyond the secondary school level, such as four (4) year colleges or universities, seminaries, two (2) year institutions (community colleges and junior colleges), and postsecondary vocational-technical schools.

(11) The term "nonresident" means a person who currently maintains legal residence outside Kentucky or has not met the criteria for establishing residency as defined in this regulation.

(12) The term "parent" means one (1) of the following:

(a) a person's father or mother, or

(b) a court-appointed legal guardian.

The term "parent" shall not apply if the guardianship has been established primarily for the purpose of conferring the status of resident on a person.

(13) The term "resident"

means a person who is a legal resident of Kentucky based upon fulfilling the criteria for establishing residency as set out in Section 2 of this regulation.

## Section 2. Guidelines for Determination of Residency.

(1) Initial classification of residency shall be determined based upon the facts existing when the conditions governing admission for a specific academic term have been met. Initial residency determinations generally are made on the basis of information derived from admissions materials. An undergraduate student whose admissions records show the student to be a graduate of an out-of-state high school is presumed to be a nonresident and shall be initially so classified. A student whose admissions records indicate the student's domicile to be outside of Kentucky at time of application is presumed to be a nonresident and shall be initially so classified.

(2) The domicile of a dependent person is that of either parent. The domicile of the parent shall be determined in the same manner as the domicile of an independent person.

(3) The domicile of a dependent person whose parents are divorced, separated, or otherwise living apart shall be presumed to be Kentucky if either parent is a resident of the Commonwealth regardless of which parent has legal custody or is entitled to claim that person as a dependent pursuant to Kentucky income tax provisions.

(4) Evidence submitted on behalf of a dependent person shall pertain to the domicile of the parent(s). A person claiming independent status shall document that proclaimed status and demonstrate that domicile in Kentucky has been established.

(5) Any dependent person whose parent(s), having domicile in this state, moves from this state shall be entitled to classification as a resident while in continuous

enrollment at the degree level in which currently enrolled. When continuous enrollment is broken or the current degree level is completed, the person's residency classification shall be reassessed in accordance with the appropriate sections of this regulation.

(6) An independent person who moves to Kentucky and within twelve (12) months enrolls in an institution of higher education more than half-time shall be presumed to have come to Kentucky primarily for educational purposes rather than to establish domicile in Kentucky. Such person shall be classified as a nonresident unless establishment of a Kentucky domicile can be demonstrated in accordance with Section 3 of this regulation.

(7) Upon moving to this state, an independent person who provides clear and convincing evidence of domicile shall be eligible for resident classification of self, spouse, or dependent children, provided that any of these persons is not in this state primarily as a student. A person who moves to Kentucky primarily for the purpose of enrollment of either self, spouse, or dependent in an institution of higher education shall not be granted resident classification unless such person can demonstrate establishment of a Kentucky domicile in accordance with Section 3 of this regulation.

(8) If an independent person or the parent of a dependent person moves out-of-state, domicile, having been established in Kentucky, is retained until steps are taken to establish domicile elsewhere. The same facts and conditions which are presumed in establishing a Kentucky domicile are similarly presumed in determining when a former Kentucky domicile has been abandoned. In the absence of clear and convincing evidence as to the domicile of an independent person who at one time had domicile in Kentucky, that person is presumed to have lost Kentucky domicile

upon a one (1) year absence from the state.

(9) An individual shall not be deemed to have established domicile in this state solely by reason of marriage to a Kentucky resident. However, the fact of marriage to a Kentucky resident shall be deemed relevant evidence to be considered in ascertaining domiciliary intent. A student initially classified as a nonresident who marries a Kentucky resident shall be eligible for resident classification when the requisite criteria listed in Section 3 of this regulation are met.

(10) Given transfer to, or matriculation in, another Kentucky public institution of higher education, the student's residency classification shall be reassessed by the receiving institution.

(11) An individual whose domicile was Kentucky at the time of induction into the military, and who maintains Kentucky as home of record and permanent address, shall be entitled to resident status if the individual returns to this state within six (6) months of the date of discharge from active duty.

(12) A member or the spouse of a member of the Armed Forces of the United States stationed in Kentucky on active military orders is considered domiciled in the state and shall be entitled to classification as a resident while the member is on active duty in this state pursuant to such orders. The spouse of the member, while in continuous attendance at the degree level in which currently enrolled, shall not lose resident status when the member is thereafter transferred on military orders. Individuals classified under this section shall be reassessed in accordance with the appropriate sections of this regulation when the qualifying condition is terminated. This regulation is invalid if the individual is stationed in Kentucky for the purpose of enrollment at an institution of higher education or on temporary assignment of less than

one (1) year.

(13) A dependent person whose parent is a member of the Armed Forces and stationed in this state on active duty pursuant to military orders shall be classified as a resident. The student, while in continuous attendance at the degree level in which currently enrolled, shall not lose resident status when the parent is thereafter transferred on military orders. When continuous attendance is broken or the current degree level is completed, the person's residency classification shall be reassessed in accordance with the appropriate sections of this regulation. This subsection does not apply if the parent is stationed in Kentucky for the purpose of enrollment at an institution of higher education or on a temporary assignment of less than one (1) year.

(14) Any person holding a permanent residency visa or classified as a political refugee has the capacity to remain in Kentucky indefinitely and shall establish domicile in the same manner as any other person. Time spent in Kentucky and progress made in fulfilling conditions of domicile as stated in Section 3 (1) prior to obtaining permanent status may be considered in establishing Kentucky domicile.

(15) Any person holding a nonimmigrant visa with designation A, E, G, H, I, or L may remain in Kentucky as long as the authorized purpose or established need continues and may establish domicile the same as any other person. In assessing the residency status of such a person, other sections of this regulation shall apply and the person's purpose and length of stay as well as other conditions governing presence in Kentucky shall be determined and considered. If this review justifies a resident classification, the person shall be classified as a resident for admission and tuition assessment purposes.

(16) Any person holding a nonimmigrant visa with designation B, C, D, F, J, K or M does not have the capacity to remain in Kentucky indefinitely and may not attain Kentucky resident status for admission and tuition assessment purposes.

(17) Pursuant to KRS 164A.330 and 200 KAR 16:040, beneficiaries of a Kentucky Educational Savings Plan Trust shall be granted resident classification for tuition purposes if:

(a) The beneficiary is covered under a vested participation agreement;

(b) The beneficiary has been a continuous resident of the Commonwealth of Kentucky during the eight (8) year vestment period; and

(c) The beneficiary enrolls in an institution of higher education in Kentucky prior to enrollment in any other educational institution.

(18) No independent person shall be presumed to have gained resident status while being enrolled in any institution of higher education more than half-time in the absence of clear and convincing evidence that the person has established domicile in Kentucky.

(19) Domicile shall not ordinarily be conferred by the performance of acts which are auxiliary to fulfilling educational objectives or are performed as a matter of convenience. Mere physical presence in Kentucky (including living with relatives or friends) is not sufficient evidence of domicile.

Section 3. Types of Evidence to be Considered for Establishment of Domicile.

(1) Evidence submitted on behalf of a dependent person shall pertain to the domicile of either parent. Initial classifications generally are made on the basis of information derived from admissions materials, and individuals who enroll in college immediately following graduation from high school and remain enrolled are treated as

dependent persons unless the contrary is evident from the information submitted. In such cases, domicile shall be inferred from the student's permanent address, parent's mailing address, or location of high school of graduation.

(2) A person claiming independent status shall document independent status under Section 1(5) of this regulation and shall demonstrate by clear and convincing evidence that domicile in Kentucky has been established by that person's acts. If an independent person asserts that domicile in Kentucky has been established, the person has the burden of proving that assertion by clear and convincing evidence.

(3) The determination of domicile shall be based upon verifiable circumstances or actions. No single fact is paramount, and each situation shall be evaluated to identify those facts which are essential to the determination of domicile.

(4) The following facts, although not conclusive, shall have probative value in support of a claim by an independent person for resident classification:

(a) Acceptance of an offer of full-time employment or transfer to an employer in Kentucky or contiguous area while maintaining domicile in Kentucky;

(b) Continuous physical presence in a nonstudent status for the (twelve 12 months immediately preceding the last date for enrollment in an institution;

(c) Filing of Kentucky resident income tax return for the calendar year preceding the date of application for reclassification of residency status;

(d) Full-time employment of at least one (a) year while living in Kentucky;

(e) Attendance as a full-time, nonresident student at an out-of-state institution of higher education while determined to be a resident of Kentucky;

(f) Abandonment of a former domicile and establishing domicile in Kentucky with attendance at an institution of higher education following and only incidental to such change in domicile;

(g) Payment of occupational taxes in Kentucky;

(h) Payment of real property taxes in Kentucky;

(i) Payment of intangible personal property taxes in Kentucky

(j) Ownership of real property in Kentucky, if the property was used by the student as a residence for at least six (6) months preceding the date of application for reclassification of residency status;

(k) Long-term lease (at least twelve (12) consecutive months) of noncollegiate housing;

(l) Kentucky automobile registration;

(m) Kentucky driver's license;

(n) Continued presence in Kentucky during vacation periods;

(o) Marriage to a Kentucky resident; and

(p) Registration as a Kentucky voter.

(5) Documentation. The determination of domicile shall be based upon verifiable circumstances or actions, and a student may be required to submit original or notarized copies of any relevant evidence pertaining to domicile. When reviewing the documentation submitted, institutions may request additional documentation to clarify the person's circumstances and to formulate a classification decision which considers all relevant facts.

(6) Submission of False Documents. A student who gives incorrect or misleading information to institution officials may be subject to criminal prosecution and to such disciplinary sanctions as may be imposed by the institution, which shall include but not necessarily be limited to the payment of nonresident tuition for each academic term attended.

#### Section 4. Responsibilities

##### (1) Institution responsibilities.

Each institution shall designate an administrative office or person with delegated day-to-day responsibility for administration of this classification regulation and for evaluating and deciding student requests for reclassification. Each institution shall also establish a residency review committee (hereafter the committee) to assist and recommend action on a student requests for reclassification referred to the committee by said administrative office or person having day-to-day responsibility for this regulation. To evaluate student requests for reclassification, each institution shall establish an operational policy including procedures and designated responsibilities. The Council on Higher Education Residency Classification Policy shall be published in its entirety in the official bulletin(s) of each institution.

##### (2) Student Responsibilities.

The responsibility for registering under the proper residency classification is that of the student. It is the student's obligation to raise questions concerning residency classification and make application for change of residency classification with the administrative officials of the institution. A student classified as a resident who becomes a nonresident shall be required to notify immediately the proper institutional officials. However, if the student fails to notify institution officials of the change in status, institutional officials may investigate and evaluate the current status of the student regardless of the source of the information. A student classified as a nonresident is considered to retain that status until the student makes written application for reclassification in the form prescribed by subsection (3) of this section and is officially reclassified by the proper administrative officials.

##### (3) Request for



reclassification. Application for change of residency classification shall be made to the administrative office or person designated by the institution for this purpose. Such application with supporting documentation shall be made by the student not more than forty-five (45) calendar days after the first day of classes of the academic term for which reclassification is sought. A student may apply for reclassification only once during the academic term for which reclassification is requested.

(a) To support full consideration of a request for a change in residency classification, each application shall consist of a complete affidavit which includes the necessary documentation to substantiate facts cited for reclassification. Each applicant is encouraged to submit a formal statement indicating the basis for the claim of resident status. The student shall be responsible for ensuring that all necessary documentation is submitted with the affidavit. Incomplete application may be returned to the student for completion at the discretion of appropriate institutional officials.

(b) Application for reclassification shall be reviewed according to institutional policy. When applications for reclassification are referred to the committee, the student shall be notified in writing as to the committee's decision on the application. The committee's written decision on residency shall include findings of fact, and determination of whether the applicant is deemed to be a "dependent person" or "independent person," whether the applicant is a "resident" or "nonresident," and the reason(s) based upon this regulation for said determinations. If an application results in a change of classification from nonresident to resident, such change shall not be made retroactive beyond the academic term in which application for resident classification is made.

A student denied resident classification by the committee shall have the right to appeal such decision to the Council on Higher Education.

Section 5. Procedure for Appeal to the Council on Higher Education.

(1) The Executive Director of the Council on Higher Education shall appoint a person to serve as an appeals officer. The appeals officer shall review all residency appeals from the public institutions of higher education to determine if the committee's written decision is supported by substantive evidence and in conformity with this regulation.

(2) After the student receives the decision of the committee, the student has fourteen (14) calendar days in which to appeal that decision to the Council on Higher Education. The student initiates this process by giving written notice to the chair of the committee or the person or office designated by the institution to handle such appeals. Appeals filed more than (fourteen) 14 calendar days after receipt of the decision of the committee shall be dismissed and the decision of the committee shall be final.

(3) The committee or its designated representative shall be responsible for forwarding to the Council on Higher Education a complete copy of the student's file within fourteen (14) calendar days of the receipt of a notice of appeal. The student may review the content of the file before it is forwarded to the Council on Higher Education.

(4) The appeal shall be considered on the written record alone and new or additional evidence shall not be considered.

(5) The appeals officer shall review the written record and the committee's written decision shall make a recommendation to affirm, modify or reverse the committee's decision. The appeals officer may order the appeal remanded to the committee for further proceedings before the appeals officer renders a

recommendation. Within twenty-one (21) calendar days after receipt of the student's file, the recommendation of the appeals officer shall be forwarded to the Executive Director of the Council on Higher Education or designated representative. The Executive Director of the Council on Higher Education or designated representative shall promptly forward the recommendation of the appeals officer to the institution representative designated to handle appeals for final disposition by the institution in accordance with established institutional procedures.

(6) The institutional representative shall promptly forward the recommendation of the appeals officer to the student. Each party (the institution and the student) shall have ten (10) calendar days after receipt of the appeals officer's recommendation to file written exceptions to the report with the institutional representative designated to handle final disposition of appeals. The institution shall make final disposition of the appeal and notify the student within thirty (30) calendar days after expiration of the ten (10) day period for filing exceptions.

Section 6. This regulation supersedes all previous policies and regulations of the Council relating to residency classification of students for tuition assessment purposes.

## ADMISSION REQUIREMENTS

### Initial Procedures

Students seeking a graduate degree must obtain Form A (Application for Admission) from the Office of Graduate Studies. The completed form must be returned well in advance of the expected date of matriculation. Graduates of accredited institutions other than Western Kentucky University must request one official transcript indicating the completed degree.

The transcript must be forwarded from the college or university Registrar directly to Graduate Studies. Applicants who have not yet completed the undergraduate degree submit one official transcript at the time of application and one official transcript after the degree is completed.

Transient students (working toward a degree at other institutions) must complete Form A but are not required to submit transcripts. Instead, they must obtain Form H from Graduate Studies. This completed form must be returned to the Director of Graduate Studies at Western prior to enrollment.

Unclassified students (not seeking an advanced degree) must complete Form A and, if not a Western graduate, submit one official undergraduate transcript to the Office of Graduate Studies.

Should the unclassified student later apply for and be granted admission into a degree program, no more than 12 hours taken while in the unclassified category may (with advisor approval) be used to fulfill degree requirements, provided time limitations etc. are met.

#### **Requirements: Master's Degree Applicants**

To be admitted to a master's degree program an applicant must:

A. Hold a bachelor's degree from a college or university of recognized standing. (Applicants from non-accredited institutions see below.)

B. Have adequate preparation in the field of specialization.

C. Have (1) an overall grade point average of not less than 2.75, or (2) a grade point average of 2.75 on the last sixty semester hours of undergraduate degree work, (inclusive of all semesters needed in reaching that total), or (3) a score of not less than 1200 on the General (verbal, quantitative, and analytical combined) Test of the

Graduate Record Examination. Requirements for admission to some programs are higher than these minimum standards.

#### **Requirements: Specialist Degree Applicants**

Applicants for a specialist degree program must:

A. Hold a master's degree from an accredited college or university.

B. Have adequate preparation in the proposed field of specialization.

C. Score not less than 1250 on the General (verbal, quantitative, and analytical combined) Test of the Graduate Record Examination or have a grade point average of not less than 3.5 on the coursework for the master's degree program. (The Specialist degree in School Administration requires a 3.5 gpa and 1250 GRE.) Present to the Office of Graduate Studies three letters of recommendation from graduate faculty and professional associates.

#### **Applicants from non-regionally accredited institutions**

Transfers from non-regionally accredited institutions - with fewer than 60 semester hours earned at the regionally accredited, degree-granting institution - must have a grade point average of at least 2.75 on the hours earned at the degree-granting institution and a combined score of at least 1250 on the General Test of the GRE.

Graduates of non-regionally accredited, four-year educational institutions may be conditionally admitted to Graduate Studies and considered for admission to a master's degree program with a minimum GRE General (verbal, quantitative, and analytical combined) score of 1250, a minimum undergraduate grade point average of 2.75/4.0, and ade-

quate preparation in the field of specialization, and one of the following:

A. The undergraduate institution is a candidate for regional accreditation.

B. The undergraduate degree is accepted as preparation for graduate study by that state's reporting institution.

C. The student's GRE verbal score is at least 550 and the undergraduate transcript indicates completion of a minimum of 40 hours of general education coursework including:

a. at least 6 semester hours (or the equivalent) in each of the areas of communication, humanities, and natural science.

b. at least 12 semester hours (or the equivalent) in social and behavioral studies, including history.

c. at least 3 semester hours (or the equivalent) in mathematics or logic.

Completion of 12 hours of graduate credit with a grade point average of at least 3.00 removes the conditional status.

A student with a combined verbal, quantitative, and analytical GRE score of at least 1400 or a verbal score of at least 600 may request individual consideration by the Graduate Council.

#### **International Students: Requirements**

Applicants who are not U.S. citizens must submit (1) a properly completed application for admission, (2) an official transcript indicating completion of the baccalaureate degree (or the equivalent), (3) evidence (a minimum score of 525 on the TOEFL) of ability to communicate in English and of the academic aptitude necessary for success in Western's graduate program, and (4) evidence of the needed financial resources. After the file is complete with these credentials, evaluation is made

within the department administering the degree program and admission is based upon adequate undergraduate preparation, academic aptitude, English ability, etc.

International students must arrive on campus three days prior to the beginning of registration for classes for orientation and testing of English proficiency. Students found to be deficient in English skills must take remedial coursework.

Health insurance must be purchased upon arrival at the University.

### Senior Citizens

A senior citizen (65 years or older) who holds a bachelor's degree may be admitted to Graduate Studies as a Special Student. Upon completion of 12 hours of coursework in a degree program with a minimum grade point average of 3.0, the student may be admitted to that degree program.

## REGULATIONS FOR GRADUATE STUDIES

### Course Load

In general, the number of semester hours of credit which may be earned during a given term may not exceed the number of weeks of instruction.

During a regular semester, the course load for a full-time graduate student is 9-15 hours with 9 being the minimum and 15 the maximum.

A graduate assistant is expected to be a full-time graduate student enrolled in 9-12 graduate hours each semester. An assistant may enroll in an undergraduate course(s) and apply those hours toward full-time status provided the course(s) is included on the official graduate program (Form C or B). When the course load includes both undergraduate and graduate courses, there must be a minimum

of 6 graduate credits. For example, full-time graduate student status may be obtained with 6 graduate credits and at least 4 undergraduate credits. During the summer session, a graduate assistant must enroll in 3-6 hours, 3 of which must be graduate level.

### Time Limitation for Completion of Degree

All requirements for the master's degree must be completed within five years from date the first course is taken.

All requirements for the specialist degree must be completed within six years.

### Transfer Credit

A maximum of 12 semester hours of graduate credit earned at another institution may be accepted toward meeting course requirements for the graduate program. However, a college-department may set more restrictive policies concerning the number of hours that will be accepted in the respective program. In any case, these requirements must be met:

1. The credit(s) must have been earned at an accredited graduate institution.
2. The coursework to be transferred must be properly designated as having been taken for graduate credit.
3. The courses to be transferred must carry a grade of "3.0" (on a 4.0 scale) or better.
4. Since Western students are responsible for all coursework taken in both the major and minor areas, all transfer coursework is subject to this same requirement. In other words, the grade point average must be at least 3.0 (4.0 scale) on all graduate coursework appearing on the transcript before specific courses can be transferred.
5. Credits earned during a given term must not exceed the number of weeks of instruction and must have been earned within the

five-year time limit for degree completion.

6. Any course(s) to be transferred must be appropriate for the degree program being followed and must be approved by the student's advisor(s) and the Director of Graduate Studies. Approval must be obtained prior to enrollment in the coursework.

7. At least 12 hours in the major area and at least 6 hours in the minor area must be taken at Western.

The "Transfer Credit Practices" report published by the American Association of Registrars and Admissions Officers is the reference used in evaluating credits.

Transfer credits taken during the final semester of a program will delay program completion until official transcripts have been received in the Office of Graduate Studies.

### Correspondence Study

Courses taken through correspondence study cannot be used as a part of any graduate program.

### Graduate Record Examination

All degree-seeking students must submit scores on the General (Aptitude) Test of the Graduate Record Examination regardless of their undergraduate grade point average. **The scores must be received by the Office of Graduate Studies prior to enrollment or during the first term of enrollment. The student will not be permitted to enroll in additional courses until the scores have been submitted.**

Registration materials for the GRE are available at the Counseling Services Center and the Office of Graduate Studies.

### Major Advisor

Upon admission to a

graduate program, each student is assigned a major advisor from the graduate faculty of Western Kentucky University.

### **Program of Study (Form C)**

All degree-seeking students must submit a planned program of study (Form C) to the Office of Graduate Studies prior to enrollment in hours beyond 12, including transfer credits, toward the program of study. The degree program is to be developed in consultation with and approved by the advisor(s) assigned at the time of admission.

**Students who fail to submit an approved program by the established deadline will not be permitted to enroll in a second semester until the approved program has been submitted.**

Students entering fifth- or sixth-year (Rank II or Rank I) non-degree, professional education programs must also submit a program of study to the Office of Graduate Studies as specified above. The approved program must be on file before a letter certifying completion of hours can be sent to the appropriate Board of Education.

All degree programs must be reviewed and approved in the Office of Graduate Studies. Non-degree programs are reviewed and approved in the Office of Teacher Certification.

### **Course Substitutions**

Any change in the approved program of study--the addition or deletion of a course, the substitution of a transfer course or of another Western course for a course on the program - must be outlined on a "course change" form, approved by the advisor and submitted to Graduate Studies for final approval. This approval should be gained prior to enrollment in the course to be substituted.

### **Program of Study Change**

Students who wish to change from one program of study to another must apply on a "Change of Program" form. Admission to the desired program must be gained, and such admission constitutes a new date of admission. The advisor(s) assigned to the new program will evaluate any previously-taken courses for their applicability to the new program.

### **Grades**

Grades lower than "C" may not be used in meeting degree or non-degree program requirements. Except in the case of theses or similar projects, the grade of "X" (incomplete) becomes "F" on the student's transcript if the work is not completed within 12 weeks of the next full university term. Thereafter, the grade point average will include the "F." In the case of theses (599) and specialist projects (699), a grade of "X" must be reported for each enrollment period prior to submission of the approved thesis or specialist project to the Office of Graduate Studies after which the grade may be changed.

Candidates for graduate degrees are required to have a combined average of "B" in all courses taken in the major and minor areas, regardless of whether they are included on the approved program of study (Form C or B), and in courses used to meet the research tool requirements for the MA, MS, and MAE - Elementary degrees. The minimum acceptable evaluation for a master's thesis or specialist project is a grade of "B".

Grades are recorded in the Office of the Registrar as reported by the graduate faculty at the close of each academic term. No grade filed in that office may be changed except on a written statement from the instructor certifying that an error has been made or, in the case of an "X", that the work was completed within the time limit.

### **Repeating a Course**

A course in which a student has received a passing grade (C or better) may not be repeated for the purpose of raising the grade. A course in which a grade of D or F is received may be repeated, but both grades are used in computing the grade point average.

### **Research Tool Grades**

For those students who choose programs that allow coursework in lieu of the foreign language requirement, a minimum grade of "B" must be attained. In the event two or more courses are involved, the average must be 3.0. If the grade earned in the single course or by averaging the grades in multiple courses is less than the required 3.0, the research tool course(s) may be repeated. Research tool requirements must be met prior to enrollment in the last 9 hours of the program.

### **Admission to Candidacy (Form D)**

Admission to candidacy is a traditional component of graduate study - the purpose of which is to provide a planned, formal review of the student's progress toward the specified program of study. The review enables the student, in consultation with appropriate University officials, to make warranted changes in the program. Admission to candidacy should be an expression of confidence that the student will (with appropriate, continued effort) be able to complete all requirements for the degree.

All degree seeking graduate students must apply for and be admitted to candidacy by submitting Form D to the Office of Graduate Studies. Admission to graduate studies and admission to candidacy are two separate procedures.

Students seeking master's degrees should submit form D to the Office of Graduate Studies after completion of at least twelve hours of coursework and no later than the first week of the semester of program completion.

**Failure to meet the filing deadline (of Form D) could delay graduation by one semester.**

Candidacy status requires the following:

- (1) approved program of study
- (2) removal of any deficiencies or conditions for admission prior to admission to candidacy
- (3) attainment of at least a 3.0 GPA on all graduate coursework at the time of admission to candidacy.
- (4) completion of the foreign language examination for M.A. and M.S. candidates. (M.A. Education-Elementary candidates must have completed Ed Fnd 500). For students who choose programs that allow coursework in lieu of the foreign language requirement, a minimum grade of "B" must be attained. In the event two or more courses are involved, the average must be 3.0. If the grade earned in the single course or by averaging the grades in multiple courses is less than the required 3.0, the research tool course(s) may be repeated.
- (5) approval of the major department and Office of Graduate Studies.

**Note:** Master's degree students who enroll in 12-15 hours of coursework (applicable to their approved degree programs) during their very first semester should submit their applications for candidacy (Form D) to the Office of Graduate Studies at the end of that semester.

Students seeking specialist degrees must apply for admission to candidacy by submitting Form D to the Office of Graduate Studies after the completion of at least twelve hours and no later than the first week of the semester of program completion. Candidacy

status for the specialist degree student requires:

- (1) approved program of study
- (2) attainment of at least a 3.0 GPA on all graduate coursework at the time of admission to candidacy
- (3) approval of the major department and the Office of Graduate Studies.

**Note:** Specialist degree students who enroll in 9-12 hours of coursework (applicable to their approved degree programs) during their first semester should submit their applications for candidacy (Form D) to the Office of Graduate Studies at the end of that semester.

### Comprehensive Examination

All graduate degree programs require that either a written or an oral examination be satisfactorily completed. The following requirements must be met to take the comprehensive examination: be admitted to candidacy; complete any required research tool and/or specified research course(s) on the program of study; complete at least one half of the approved program minor (if applicable); have no more than nine hours remaining on the approved program; and complete any additional requirements as specified by the department(s) directing the program. A written examination is required by some programs within the Master of Arts in Education degree and by the Master of Public Administration degree. Specialist degree programs require an oral examination. Master's degree programs with thesis (Plan A) require an oral thesis defense. The major advisor in consultation with the student appoints the oral examination committee consisting of three graduate faculty members. If the student's program includes a minor, or a significant amount of coursework in an area outside the major, one of the committee members must be from that area.

Students must contact their major advisors for scheduling the examination.

The chairperson will notify the Office of Graduate Studies of the results of the examination through the use of Form E.

### Second Master's Guidelines

The student who wishes to earn a second master's degree from Western Kentucky University must apply for and gain admission to the new program and satisfy all requirements (specific coursework, research tool, thesis, etc.) for the new degree, completing at least 18 additional hours of coursework or 12 hours plus the thesis. No more than 12 hours of previous coursework, whether transferred from another university or from the previous master's degree at Western (or a combination of the two), may be used to fulfill program and research tool requirements. Any coursework used must be earned within the 5 years allowed for the degree program.

### Seniors Earning Graduate Credit

Seniors at Western or one of the cooperating consortium colleges may enroll in graduate coursework during their final undergraduate semester provided they (1) have an undergraduate grade point average of at least 2.75, (2) make formal application to graduate study (Form A should be submitted to the Office of Graduate Studies at least four weeks prior to the beginning of the semester), (3) carry a final-semester course load of no more than 15 hours (combined undergraduate and graduate hours), and (4) do not, in any way, attempt to apply the graduate course(s) to the undergraduate degree.

### Thesis and Specialist Project Advisory Committees

Students pursuing graduate programs requiring the thesis or specialist project are assisted by a thesis or specialist project advisory committee. In consultation with the



student, the major advisor selects two additional graduate faculty members - thus forming the three-member advisory committee, with the major advisor as chairperson.

In some cases, one member other than the chairperson - may be an individual who is not a member of Western's faculty. Those individuals must qualify and be recommended for adjunct membership on Western's graduate faculty. An individual who has expertise in a pertinent area but who does not meet the requirements for appointment to regular or associate membership on the graduate faculty may serve as a fourth member of the committee with approval of the Director of Graduate Studies.

### **Thesis or Specialist Project**

The program of a student pursuing the master's thesis or specialist project must contain 6 hours of credit in 599 - Thesis Research and Writing or in 699 - Specialist Project, respectively.

The thesis or project must be submitted to the Office of Graduate Studies in final form, following approval by the student's committee members and the Office of the Dean of the appropriate college. The thesis or project should be provided to the Office of Graduate Studies at least three weeks prior to the date that student will fulfill graduation requirements.

Complete instructions and requirements for preparing, submitting, and distributing the thesis or specialist project are given in "Guidelines for Master's Theses and Specialist Projects." Copies are available in the Office of Graduate Studies. It is the student's responsibility to obtain and comply with these guidelines.

### **Maintaining Matriculation**

If the thesis or project is not completed during the period of

registration for this credit, the student must maintain matriculation until the thesis or project has been submitted and approved. Therefore, if not enrolled in thesis/project credit or for graduate coursework, the student must register for 600 (thesis) or 700 (project) during any semester or summer term in which he/she will be actively pursuing the thesis or project or will be submitting it for approval. Enrollment in 600 or 700 does not result in a grade nor credit toward any degree or non-degree program requirements.

### **Application for Degree**

The degree candidate must complete a degree application (available in the Office of Graduate Studies and in the Registrar's Office) and return it with the graduation fee to the Registrar's Office according to the dates established by the Registrar for each semester.

### **Independent Study Courses**

A maximum of 6 hours of workshops, independent studies, special problems, individual special topics, and research or readings in the discipline may be used on any degree program.

## **DEGREES AVAILABLE**

**Master of Arts.** Programs leading to the M.A. degree are offered in the following fields: communication, economics, English, folk studies, history, humanities, psychology and sociology.

**Master of Arts in Education.** This degree program permits majors in the following fields: agriculture, art, biology, business education, chemistry, communication, counseling (school), economics, elementary education, English, English and allied language arts area, early childhood education, exceptional child education, French,

general education, geography, German, government, health, history, home economics, industrial education, interdisciplinary early childhood education, mathematics, math-science area, mental health counselor, music, physical education, psychology, reading, science area, secondary education, social science area, Spanish, and student personnel services in higher education.

The secondary education degree program permits minors in the following areas: agriculture, art, biology, business education, chemistry, communication, theatre, economics, English, folk studies, French, geography, German, government, health, history, home economics, industrial education, mathematics, music, physical education, physics, psychology, science area, secondary education, sociology, and Spanish.

**Master of Science.** Programs leading to the M.S. degree are offered in the following fields: agriculture, biology, chemistry, city and regional planning, communication disorders, computer science, geography, health, library science, mathematics, physical education, and recreation.

**Master of Music.** Specific information and requirements are given under the administrative department.

**Master of Public Administration.** See Department of Government.

**Master of Professional Accountancy.** See Department of Accounting.

**Specialist in Education.** The Specialist Degree in Education is available in counseling, elementary education, school administration, and secondary education.

**Joint Doctoral.** Western participates in joint-doctoral programs in education with the University of Kentucky and in a cooperative doctoral program in aquatic biology and in fossil fuel chemistry with the University of Louisville.

## OUTLINE OF DEGREE REQUIREMENTS

The requirements outlined below are minimum requirements for the specific degrees. Some programs leading to the degree have requirements which exceed these minimums.

### Master of Arts and Master of Science Degrees

**Admission.** In addition to meeting graduate studies requirements, applicants must possess at least a minor or its equivalent and a minimum grade average of 2.75 in the desired area of study.

**Coursework.** A minimum total of 30 hours of graduate level coursework (or 24 hours plus thesis) is required, with no more than 12 hours of 400G-level coursework allowed.

**Program.** The student's approved program (Form C) must be on file prior to enrollment in hours beyond 12.

**Research Tool.** Unless the department has a specific requirement, the student may meet the research tool requirements by demonstrating (1) a reading ability sufficient to do scholarly research in a foreign language appropriate to the major area or (2) competency in the use of the appropriate research techniques recommended by the departmental advisor(s) and approved by the Director of Graduate Studies. Research tool requirement must be met prior to enrollment in the last nine hours of program. No credit earned in meeting research tool requirements will apply toward the hours required for the degree. Minimum grade of "B" is required in courses used to meet the research tool requirement. See "Research Tool Grades."

**Language Reading and Translation Courses.** The French and German reading translation courses are offered during the fall semester only. Graduate students

in degree programs which require the language proficiency test must make those courses a part of their first fall enrollment period.

**Thesis.** Some departments offer both Plan A (thesis) and Plan B (non-thesis). For Plan A, the thesis credit (6 semester hours) must be included in the hours (usually a minimum of 30) required for the degree. The thesis topic must be approved by the student's major advisor. Students must maintain matriculation until the thesis is approved (see "Thesis and Specialist Project" and "Maintaining Matriculation").

**Admission to Candidacy.** Candidacy status must be gained after completion of at least 12 hours and no later than the first week of the semester of program completion.

**Final Examination.** A final examination over coursework and related materials must be satisfactorily completed. An oral thesis defense is required under Plan A (thesis option).

### Master of Arts in Education

**Admission.** In addition to meeting graduate studies requirements for admission, if applying for a program which involves teacher certification the applicant must meet certification requirements for that specific program.

**Coursework.** A minimum of 30 hours of graduate level coursework (or 24 hours plus thesis) is required, with no more than 12 hours of 400G-level coursework allowed. All students pursuing this degree must complete Education 500--Research Methods--and must meet coursework requirements for any certification being pursued.

**Program.** The student's approved program (Form C) must be on file prior to enrollment in coursework beyond 12 credit hours.

**Research Tool.** The M.A. in Education-Elementary requires Ed

Ed 500 as the research tool. Hours earned in a research tool do not apply to the hours needed for the degree. A grade of "B" must be achieved and the course must be taken prior to enrollment in the last nine hours of the program. See "Research Tool Grades" for further information.

**Thesis.** Some departments offer both Plan A (thesis) and Plan B (non-thesis). For Plan A, the thesis credit (6 semester hours) must be included in the hours (usually a minimum of 30) required for the degree. The thesis topic must be approved by the student's major advisor. Students must maintain matriculation until the thesis is approved (see "Thesis and Specialist Project" and "Maintaining Matriculation").

**Admission to Candidacy.** Candidacy status must be gained after completion of at least 12 hours and no later than the first week of the semester of program completion.

**Final Examination.** A final examination over coursework must be satisfactorily completed. An oral thesis defense is required under Plan A (thesis option).

### Specialist in Education

**Admission.** Applicants must hold the master's degree, must have a minimum grade point average of 3.5 on the coursework\* for the master's degree program or a combined score of at least 1250 on the General (verbal, quantitative, and analytical combined) Test of the Graduate Record Examination, and must submit three letters of recommendation (sent directly to the Office of Graduate Studies) from professors and professional colleagues.

\*(Admission to the Ed.S. in School Administration requires a 3.5 gpa and 1250 GRE scores.)

**Coursework.** A minimum of 30 semester hours of graduate credit, all of which must be in

courses open only to graduate students, must be completed.

**Program.** The student's approved program (Form B) must be on file prior to enrollment in hours beyond 12.

**Residency.** Two periods, consisting of a minimum of six hours each, of on-campus coursework must be completed. The student may meet this requirement in two summers, two semesters, or one summer and one semester. These 12 hours must be earned through traditional coursework (i.e., courses which may not be completed through independent study). The summer will count as only one period in meeting this requirement.

**Admission to Candidacy.** Students are admitted to candidacy after completion of a minimum of 12 semester hours and no later than the first week of the semester of program completion.

**Specialist Project.** The project is an integral part of the specialist program and is planned with reference to the student's field of specialization and professional goals. It may take the form of a field project, a creative study, or a more formal research study and shall culminate in a written, scholarly report. Students must maintain matriculation until the project is approved (see "Thesis and Specialist Project" and "Maintaining Matriculation").

**Final Examination.** An oral examination covering the coursework and project must be satisfactorily completed. The chairperson will notify the Office of Graduate Studies of the results through the use of Form E.

#### **Cooperative Master's Program with Eastern Kentucky University**

Western participates in a cooperative master's program in criminal justice with Eastern Kentucky University. In this joint graduate program, Eastern provides 15 hours of criminal justice and

Western provides 15 hours of supportive coursework. The entire program may be completed on Western's campus.

#### **Cooperative-Doctoral (Ph.D.) with the University of Louisville**

The cooperative-doctoral is limited to the Ph.D. program with emphasis in aquatic biology or in fossil fuel chemistry. Admission requires concomitant admission to the Graduate School of the University of Louisville and graduate studies at Western Kentucky University. Admission requires completion of the appropriate application forms at each institution and the payment of a non-refundable application fee of five dollars (\$5.00) to the University of Louisville, the transmission of one official transcript indicating adequate preparation and copies of two letters of recommendation to each graduate studies office, achievement of a combined score of at least 1,000 on the General (verbal and quantitative) Test of the Graduate Record Examination and a score of at or above 40 on the Miller Analogies Test (to be sent to the University of Louisville), and approval by the graduate faculty members of both institutions.

The degree requires the equivalent of at least three years of full-time graduate study, at least two years of which must be spent on the cooperative campus (Western Kentucky University and/or the University of Louisville). A minimum of one year of full-time residence must be spent on the university campus on which the student's major professor resides.

The student's graduate committee will consist of at least five members, with at least two each from the University of Louisville and Western Kentucky University.

Requirements include an entry examination over material from the broad field of biology or chemistry and a preliminary oral

and/or written examination after completion of the major portion of the prescribed coursework. A reading knowledge of at least one modern foreign language must be demonstrated before admission to candidacy.

The final oral examination consists of a defense of the dissertation and a demonstration of the candidate's mastery of the field of study.

#### **Joint Doctoral with the University of Kentucky**

Admission requires concomitant admission to graduate study at Western and to the Graduate School and doctoral program at the University of Kentucky. Application forms are available in the Office of Graduate Studies at Western and, upon completion, are to be returned to the Director of Graduate Studies, Western Kentucky University. If fully qualified, the applicant's credentials will be forwarded to the University of Kentucky. Requirements for admission include a combined score of at least 1,000 on the General (verbal and quantitative) Test of the Graduate Record Examination, completion of the Miller Analogies Test if the GRE verbal score is below 600, personal references, transcripts of previous academic work, a statement of educational goals, and a brief autobiography.

#### **Academic Common Market**

Kentucky, along with 12 other southern states, participates in the Academic Common Market--an interstate agreement for sharing uncommon programs. Numerous graduate programs are included in this cooperative arrangement. Kentucky residents accepted for admission into selected out-of-state programs can enroll on an in-state tuition basis. A catalog listing of the programs is available in the Office of Graduate Studies.



## **COLLEGE OF ARTS, HUMANITIES, AND SOCIAL SCIENCES**

**David Lee, Interim Dean**

### **DEPARTMENTS**

**Art**

**Communication and Broadcasting**

**English**

**Government**

**History**

**Journalism**

**Modern Languages and Intercultural Studies**

**Music**

**Philosophy and Religion**

**Sociology and Anthropology**

**Social Work**

**Theatre and Dance**

### **DEGREES OFFERED**

**Master of Arts (Communication, English, Folk  
Studies, History, Humanities, Sociology)**

**Master of Music**

**Master of Public Administration**

**Majors and Minors Offered Under the Master of  
Arts in Education Degree**

**Art**

**Communication**

**English**

**English and Allied Language Arts (Major only)**

**Folk Studies (Minor only)**

**Government**

**History**

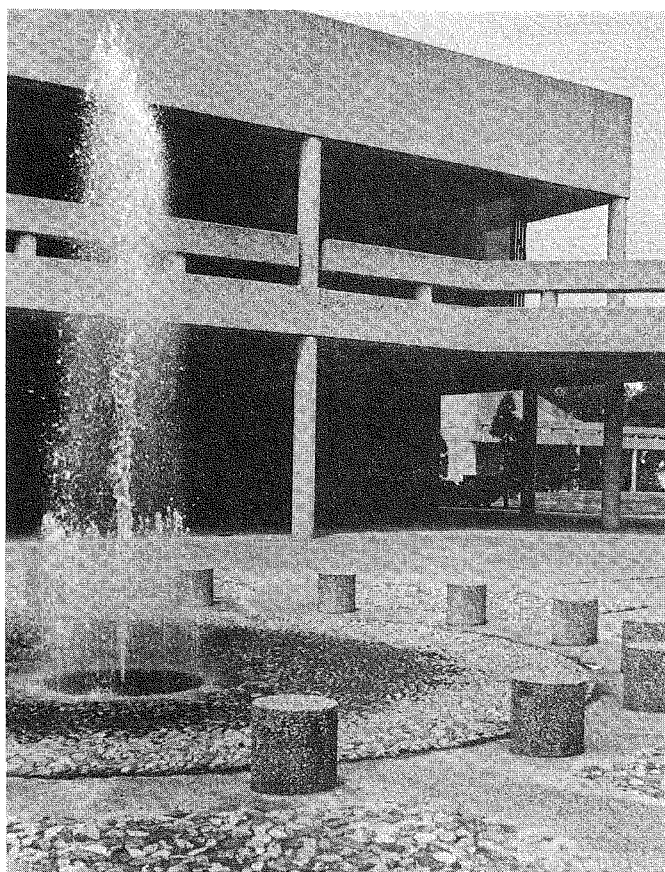
**Modern Languages (German, French, Spanish)**

**Music**

**Social Science (Major only)**

**Sociology (Minor only)**

**Theatre (Minor only)**





## DEPARTMENT OF ART

IVAN WILSON CENTER  
ROOM 441 (502) 745-3944

Leo Fernandez, Head

## Graduate Faculty

Professors: L. Fernandez, L. Notheisen, W. Stomps

Associate Professors: P. Trutty-Coohill, M. Klein

Assistant Professors: M. Coakes

Degree Offered: Master of Arts in Education (Art major or minor)

Applicants must meet Graduate Studies requirements for admission. They are also expected to present to the Department of Art a portfolio of their work for departmental review or to obtain permission to enroll from the professor responsible for the area in which they intend to concentrate their study of art. The program requires a minimum of 36 semester hours. Both Plan A (thesis) and Plan B (non-thesis) are available.

Requirements for art majors pursuing the thesis option are as follows:

Art 511 and 512, Investigations in Art Education 6 hrs; Art 599, Thesis 6 hrs; Art studio courses (graduate) 9 hrs.; Art 405G, Art Theory and Criticism or graduate art history course 3 hrs.; Ed Fnd 500, Research Methods 3 hrs.; Sec Ed 580, Curriculum 3 hrs.; Sec Ed 531, Art Ed Seminar 3 hours; Psy 510, Adv Ed Psy; Psy 511, Learning, or 519 Psy Beh 3 hrs.

Requirements for art majors pursuing the non-thesis option are as follows:

Art 511 and 512, Investigations in Arts Education 6 hrs.; Art studio courses (graduate) 15 hrs.; Art 405G, Art Theory and Criticism or graduate art history course 3 hrs.; Ed Fnd 500, Research Methods 3 hrs.; Psy 510, Adv Ed Psy, Psy 511, Learning, or Psy 519, Beh Psy 3 hrs; Sec Ed 580; and Sec Ed 531.

Students pursuing an art minor only must complete the following for a total of 30 hours.

ART 511 and 512, 6 hrs.; Art studio or art history, 6-9 hrs.; Ed Fnd 500, 3 hrs.; Sec Ed 580, 3 hrs.; Sec Ed 531, 3 hrs.; Education electives, 6-9 hrs.

For all art majors and minors, a terminal project and a final examination over coursework and related materials must be satisfactorily completed. An oral thesis defense is required under Plan A (thesis option).

## Graduate Courses in Art

- 500 **Early Medieval Art.** 3 hours.  
Examination of topics and problems in Early Christian, Byzantine, Migration, Carolingian, and Ottonian art.
- 501 **Romanesque and Gothic Art.** 3 hours.  
Directed individual research into the architecture, sculpture, and illuminated manuscripts of Western Europe during the eleventh to early sixteenth centuries.
- 511 **Investigations in Art Education.** 3 hours.  
Independent study in art curriculum and methodology, with emphasis on the literature, selected art history, and studio areas.
- 512 **Investigations in Art Education.** 3 hours  
Independent study in art curriculum and methodology (including art history and studio). Emphasizes the use of surveys, observations, and experimental techniques.
- 520 **Ceramic Art.** 3, 6, 9 hours.  
Advanced levels of clay forming techniques and clay glaze composition. Research in various phases of the ceramic process.
- 540 **Drawing.** 3, 6, 9 hours.  
Independent study utilizing traditional methods of drawing. Students are encouraged to investigate and utilize new directions.
- 550 **Printmaking.** 3, 6, or 9 hours.  
Independent study utilizing traditional methods of printmaking. Encourages the exploration of new directions in personal expression.
- 560 **Painting.** 3, 6, 9 hours.  
Advanced aspects of painting, with emphasis on experimentation in different styles and on individualized approaches.
- 570 **Sculpture.** 3, 6, 9 hours.  
Independent study and experimentation in sculpture.
- 580 **Weaving.** 3, 6, 9 hours.  
Individual study of weaving utilizing traditional and experimental techniques: the production of works that are highly individualistic and are of exhibition quality.
- 591 **Investigations in Art History.** 3 hours.  
Topics and approaches for special areas of interest. Emphasis on the traditional periods of art history.
- 599 **Thesis Research and Writing.** 6 hours.
- 600 **Maintaining Matriculation.** 1 to 6 hours.

**The following 400-level courses  
may be taken for graduate credit:**

- 401G **Art in the Italian Renaissance.**
- 402G **American Architecture.**

- 405G Art Theory and Criticism.** 3 hours.  
Major theories of art, both historical and contemporary, and various approaches to qualitative judgements about individual works of art.
- 420G, 421G, 422G Ceramics.**
- 440G Drawing.**
- 450G, 451G, 452G Printmaking.**
- 460G, 461G, 462G. Painting.**
- 470G, 471G, 472G. Sculpture.**
- 480G, 481G, 482G Weaving.**
- 490G, 491G Special problems.**

## DEPARTMENT OF COMMUNICATION AND BROADCASTING

**IVAN WILSON CENTER  
ROOM 130 (502) 745-3296**

**Randall Capps, Head**

### Graduate Faculty

**Professors: R. Capps, C. Kell, R. O'Connor, D. Wicklander, L. Winn**

**Associate Professor: L. Caillouet, C. Garmon, J. Hoover**

**Assistant Professors: K. Payne, S. Ray**

**Degrees Offered:** Master of Arts in Communication, Master of Arts in Education (Communication major or minor)

### Master of Arts in Communication

This degree prepares students for a variety of careers and pursuits in which advanced communication study is helpful. It is especially useful as preparation for college level teaching, further graduate study, management and personnel relations, group communication situations including decision making, and other areas requiring specialized communication skills.

The program provides maximum flexibility. Courses are organized to allow concentration in one of the following areas within the department: communication theory and research, organizational communication, rhetoric and public address, and speech education. With advisor permission, students

may take a maximum of 6 hours in a related area outside the department.

A weekend program is offered which provides students with the opportunity to complete the MA in two years by taking advantage of courses scheduled on Friday evenings and Saturdays. The focus of the weekend course offerings is Organizational Communication.

In the early stages of the graduate program, students should meet with their advisor and decide whether to follow Plan A (thesis) or Plan B (non-thesis).

The MA in Communication requires 30 hours plus 3 hours of research tool. Specific departmental requirements include the following:

**S Com 503-Foundations of Communication Concepts** (required of all graduate students)

**S Com 400G-Qualitative Methods and/or S Com 440G-Quantitative Methods**

(Communication majors must select either 400G or 440G as the research tool; the remaining course may be included in the graduate major.)

**Master of Arts in Education** (Communication major or minor)

Since this program provides graduate coursework in communication for the public school teacher, all requirements for standard high school certification must be met. The major in communication requires a minimum of 18 or a maximum of 21 hours. The minor in communication requires a minimum of 12 or a maximum of 15 hours in the appropriate area. The remaining hours will be taken in professional education.

### Graduate Courses in Communication

- 500 Speech Communication Internship.** 3 hours.  
Practical experience in speech communication situations. On-site guidance from a coordinator within the organization. This courses may be repeated once.
- 503 Foundations of Communication Concepts.** 3 hours.  
Major concepts and issues which characterize the discipline.
- 510 Strategies for Teaching Speech Communication.** 1 hour.  
Designed to improve the teaching performance of S Com graduate assistants in teaching the basic public speaking courses.
- 521 Evaluation of Mass Communication.** 3 hours.  
Criteria for determining the social responsibilities of and for judging the performance of the mass media in America. Principal recurring schema used to evaluate the mass communication process.

- 522 Seminar in Mass Communication.** 3 hours.  
Selected topics in mass communication theory and practice: mass communication history, mass communication law and regulation, popular culture, message characteristics, etc. May be repeated with a different topic.
- 525 Seminar in Broadcasting.** 3 hours.  
Topical issues in the field of broadcasting. Individual student research and subsequent class discussion. Primary research methods and resources will be reviewed.
- 540 Seminar in Rhetoric and Public Address.** 3 hours.  
Theories of rhetoric and the application of rhetorical standards to selected speakers, movements, areas and periods. May be repeated with a different topic.
- 542 Practicum in Communication Consulting.** 3 hours.  
Practical off-campus experience in the actual development, implementation, and evaluation of communication programs in organizations.
- 543 Contemporary Methods of Rhetorical Criticism.** 3 hours.  
Application of contemporary methods of analyzing and evaluating rhetorical discourse.
- 544 Persuasive Communication.** 3 hours.  
How persuasion works across the dimensions of the communication process: one-to-one, small group, public, and mass communication.
- 546 Seminar in Forensics.** 3 hours.  
Principles and procedures involved in directing the standard forensic events such as debate, extemporaneous speaking, discussion, original oratory, analysis of a public address. Also includes interpretative reading, duet acting and story telling.
- 549 Rhetorical Theory and Criticism.** 3 hours.  
Development of classical tradition in rhetorical theory, practice, criticism, and pedagogy, from pre-Aristotelian writings to twentieth-century British and American theorists.
- 560 Seminar in Organizational Communication.** 3 hours.  
Topical studies in the field of organizational communication. Includes employee communication and conflict management, among others. May be repeated with a different topic.
- 563 Issue Management.** 3 hours.  
A study of issue identification, issue analysis, issue change strategy options, and issue action programming with particular emphasis upon the role of communication in issue management.
- 564 Crisis Communication.** 3 hours.  
Role of communication in crisis prevention, crisis readiness and crisis resolution.
- 565 Communication and Conflict.** 3 hours.  
Study of communication as it relates to conflict in interpersonal, group, organizational, and intercultural settings.
- 566 Corporate and Organizational Advocacy.** 3 hours.  
Historical overview of corporate and organizational advocacy in the 20th century focusing on the communication process used in corporate advocacy.
- 569 Values and Leadership in Organizational Communication.** 3 hours.  
Study of communication as it relates values, leadership, and uses of power in such organizational contexts as business, professional, social, educational and political groups.
- 570 Seminar in Communication.** 3 hours.  
Selected topics in communication theory: small group communication, language behavior, etc. May be repeated with a different topic.
- 572 Nonverbal Communication.** 3 hours.  
Theory and research in nonverbal communication. Topics will include body language, vocalics, and use of space, time, touch, and artifacts in communication.
- 576 Principles of Group Communication.** 3 hours.  
The dynamics of communication and interaction occurring in small groups.
- 578 Seminar in Interpersonal Communication.** 3 hours.  
Examination of professional literature and basic research in interpersonal communication.
- 586 Processes of Group Communication.** 3 hours.  
Prerequisites: SCOM 576  
Practice in the group communication processes that lead toward successful team work in organizational contexts.
- 595 Independent Study in Communication.** 3 hours.  
Permits students to conduct individualized communication research in an area of their interest.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

**The following 400-level courses in Communication may be taken for graduate credit:**

- 400G Qualitative Methods of Communication Research.** 3 hours.  
Study of traditional and contemporary non-quantitative methods of examining communication events and phenomena.
- 401G History of Broadcasting in America.** 3 hours.  
Historical factors in the development of primary means of contemporary print and broadcast mass communications: background data on the creation, adoption and diffusion of mass media in America.
- 404G Professional Media Roles.** 3 hours.  
Comprehensive and practical transition to life roles as media consumers, practitioners, and/or researchers. Examination of domestic, commercial, and academic applications of media study. Methods for career placement and advancement.
- 405G Phonetics.** 3 hours.  
Speech sounds, their production, and acoustic properties.
- 440G Quantitative Methods of Communication Research.** 3 hours.  
A study of quantitative research design as used in communication research including experimental design,

survey research, content analysis, and statistical procedures.

- 443G Persuasion in Contemporary Society.** 3 hours.  
Contemporary persuasion in areas such as business, law, politics, religion, and social movements; types of persuasion ranging from speeches to entertainment forms such as music and cinema.
- 447G Studies in Public Communication.** 3 hours.  
Effective examples of public communication in American history.
- 449G Speech Development.** 3 hours.  
Speech as a teaching tool. Minor problems in voice control, articulation, and pronunciation.
- 460G Interviewing.** 3 hours.  
Overview of principles and methods especially well suited to oral, one-to-one information gathering in an organizational setting. Emphasizes practice both in and out of the classroom.
- 461G Organizational Communication.** 3 hours.  
Theoretical examination of rhetorical principles operant in modern organizational communication systems.
- 463G Intercultural Communication.** 3 hours.  
Dimensions of communication theory that apply across cultural boundaries, including anthropological and linguistic perspectives.
- 474G Gender Differences in Communication.** 3 hours.  
Communication behaviors related to gender including understanding gender related differences reflected in interpersonal, organizational, and mass communication situations.
- 495G Independent Study in Communication.** 3 hours.

## DEPARTMENT OF ENGLISH

CHERRY HALL  
ROOM 135 (502) 745-3043

Joseph R. Millichap, Head

### Graduate Faculty

**Professors:** N. Davis, R. Eckard, J. Flynn, W. Fridy, J. Glaser, J. Hagaman, J. Heldman, W. Hellstrom, J. Millichap, C. Mosby, K. Pelz, J. Spurlock, F. Steele, J. Survant

**Associate Professor:** P. Carr

**Assistant Professors:** L. Crouther, L. Dill, K. Green, J. Lenihan, E. Oakes, K. Schneider, M. Spears

**Degrees Offered:** Master of Arts in English, Master of Arts in Education (English major or minor; English and Allied Language Arts area major)

### Master of Arts in English

The master's program prepares students for teaching in schools or colleges, for continuing graduate work toward a doctorate in English, or for many other careers that involve strong communication skills. The MA in English can be taken with concentration in literature, writing, or teaching English as a second language (TESL). Admission requirements for a concentration in literature include 27 hours of undergraduate English with a GPA of 3.0 or above, a satisfactory score on the General Test of the GRE, and a satisfactory writing sample. Admission requirements for the writing and TESL concentrations include a minimum of four undergraduate English courses beyond general education requirements, at least two being upper-level literature courses, with the GPA and GRE score indicated above and a satisfactory writing sample.

Both Plan A (thesis) and Plan B (non-thesis) are available. Plan A requires 24 hours of coursework and the 6-hour thesis. Plan B requires 33 hours of coursework. In either plan, 6 hours of coursework may be in a related field such as drama, English history, foreign literature, mass media, philosophy, or communication. Courses in each program must meet departmental requirements, a list of which is available from the English Graduate Advisor.

All programs include a research tool requirement, which the student may satisfy by demonstrating proficiency in a foreign language or by completing English 520. If English 520 is designated as the research tool, it may not be included in the credit hours required for the degree.

An examination over the coursework, thesis (if Plan A), and related materials must be completed. Early in the graduate program, the student should obtain from the English Graduate Advisor a copy of the Reading List for the MA Oral Examination.

**Master of Arts In Education** (English major or minor; English and Allied Language Arts area major)

This degree qualifies the student for the standard high school certificate. To pursue a major or minor in English, the student must have completed at least 24 hours of undergraduate work in English.

The major in English is designated primarily for secondary teachers who wish to acquire a strong academic background in their teaching field. Requirements include a minimum of 18 hours in

English, 12 hours in education, and a final examination on courses and related materials specified in the Reading List for MA Oral Examination. At the beginning of the graduate program, the student should obtain a copy of the reading list from the Graduate Advisor in English. The thesis is optional.

Students minoring in English take a minimum of 12 hours in that department.

The major in English and Allied Language Arts is designed for secondary school teachers involved in teaching basic language courses and in directing student activities related to the language arts. Admission to this program usually requires 24 hours of undergraduate coursework in English; however, to keep the entrance requirements as open as possible to qualified applicants, up to 9 of the 24 hours may consist of appropriate courses from related fields (foreign language, speech, drama, journalism, reading).

This area major requires a minimum of 18 hours of coursework in English and Allied Language Arts (communication, drama, journalism, mass media, foreign languages, and folk studies). The requirement in English varies according to undergraduate preparation. Advanced composition and 6 to 9 hours of British or American literature are required of all. The remaining hours for the area major will be selected from allied language arts. Twelve hours must be taken in professional education. The oral examination for this program covers the student's graduate courses.

### Graduate Courses in English

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| <p><b>501 Graduate Writing Workshop. 3 hours.</b><br/>Provides a Master's level workshop for students with varied writing interests.</p> <p><b>502 Graduate Directed Writing. 3 hours.</b><br/>Provides a graduate-level directed writing course for students with varied writing interests.</p> <p><b>503 Syntactic Theory. 3 hours.</b><br/>The development of syntactic theory, with emphasis on various new approaches.</p> <p><b>508 TESL Field Experience. 3 hours.</b><br/>Prerequisites: Eng 469 and one linguistics course.<br/>Observation and teaching under professional supervision.</p> <p><b>520 Introduction to Graduate Studies. 3 hours.</b><br/>Basic bibliography and bibliographical problems; research methods requisite for the M.A. thesis and scholarly publications; methodologies of recent critical essays.</p> <p><b>553 Restoration and Eighteenth Century Drama. 3 hours.</b><br/>Emphasis on a number of representative plays. Evaluation of influences, movements, and productions.</p> | <p><b>560 Literary Criticism II. 3 hours.</b><br/>Critical theory and practice of significant literary critics of the Western world from the Romantic period to the present.</p> <p><b>569 Cooperative Education in English I. 3 hours.</b><br/>Prerequisites: A minimum of 9 graduate hours in English with a GPA of 3.25 or above; approval of the departmental coop advisor and of the English departmental advisory committee. Work with an appropriate organization.</p> <p><b>570 Practical Approaches to Literature. 3 hours.</b><br/>Terms, concepts, and procedures of practical criticism through the study and practice of a variety of critical approaches to a representative sample of literary works.</p> <p><b>571 British Masterpieces in the Classroom. 3 hours.</b><br/>Masterpieces of British literature suitable for teenage students. Works suggested by those taking the course and a designated core of selections will be studied to aid teachers in making these masterpieces understandable, interesting, and enjoyable to secondary school students.</p> <p><b>572 American Masterpieces in the Classroom. 3 hours.</b><br/>Major American literary works appropriate for instruction in high school and junior high school. Works suggested by those taking the course and a designated core of selections will be studied to aid teachers in making these masterpieces understandable, interesting, and enjoyable to secondary school students.</p> <p><b>579 Studies in Victorian Literature. 3 hours.</b><br/>Selected Victorian works or writers or special tropics of significance in Victorian literature.</p> <p><b>581 Readings in Old English. 3 hours.</b><br/>Introduction to Anglo-Saxon vocabulary, grammar, and literary devices. Readings in the original and in translation.</p> <p><b>582 Middle English Literature. 3 hours.</b><br/>Non-Chaucerian English literature of the Middle English period. Language of the period reviewed.</p> <p><b>583 Shakespeare II. 3 hours.</b><br/>Selected comedies and histories. Individual research in literary criticism.</p> <p><b>585 Milton. 3 hours.</b><br/>The writings of John Milton, with emphasis on his poetic works.</p> <p><b>586 Seminar in British Writers. 3 hours.</b><br/>Content varies. Selected works or writers. Majors may repeat course once with different topic.</p> <p><b>587 Wordsworth and Keats. 3 hours.</b><br/>The major works of these two writers and an evaluation of their contributions to the Romantic Movement.</p> <p><b>588 Modern British Poetry. 3 hours.</b><br/>Detailed study of the works of major twentieth century British poets.</p> <p><b>589 Cooperative Education in English II. 3 hours.</b><br/>Prerequisites: A minimum of 9 graduate hours in English with a GPA of 3.25 or above; approval of the departmental coop advisor and of the English graduate advisory committee. Appropriate supervised work with a cooperating organization.</p> |
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- 591 **Emerson, Thoreau, and Whitman.** 3 hours.  
Selected works, cultural backgrounds, and contributions of these writers.
- 592 **The Age of Twain and James.** 3 hours.  
Realism and naturalism in American literature. Emphasis on Twain, James, and their contemporaries.
- 593 **Poe, Hawthorne, and Melville.** 3 hours.  
Selected works, cultural backgrounds, and contributions of these writers.
- 594 **Contemporary Fiction.** 3 hours.  
Selected major figures and their works. Consideration of movements, influences, developments since 1945.
- 596 **Seminar in American Writers.** 3 hours.  
Varies according to assigned instructor and student's needs. Usually covers group of writers, or one major writer.
- 597 **Special Topics in English.** 3 hours.  
Seminar on topics in literature, language, or composition. Course may be repeated with different content.
- 598 **Advanced Directed Study.** 2 or 3 hours.  
Supervised student research on literary or linguistic topics.
- 599 **Thesis Research and Writing.** 6 hours.
- 600 **Maintaining Matriculation.** 1 to 6 hours.

**The following 400-level courses may be taken for graduate credit:**

- 401G **Advanced Composition.** 3 hours.  
Study and practice in various forms of writing and rhetorical principles.
- 402G **Editing and Publishing.** 3 hours.  
Editing collections of student works in several types including experience in computer text editing; lectures by visiting publishers and editors of books, journals, and newspapers.
- 403G **Writing Memoirs and Autobiography.** 3 hours.  
A course in the techniques of writing autobiography; readings will be chosen primarily from contemporary American examples of the genre.
- 404G **History of the English Language.** 3 hours.  
Origin and development of the language from Indo-European to Modern English with emphasis on developments in the sound system, vocabulary, and grammar; historical and cultural effects.
- 405G **Phonetics.** 3 hours.  
Speech sounds, their production and acoustic properties. Cross-listed with Ex Ed 405G.
- 406G **Advanced Writing Workshop.** 3 hours.  
Workshop setting for students with major writing projects such as an essay collection, short stories, poems, a novel, play, or script.
- 407G **Descriptive Linguistics.** 3 hours.  
Current linguistic theory which includes the important levels of language as a means of communication; various theories and applications of linguistic theory to other fields of study.
- 408G **Psycholinguistics and Sociolinguistics.** 3 hours.  
Prerequisite: Introductory linguistics course. How sociology and psychology contribute to the study of linguistics. Emphasis on social and regional dialects, first and second language acquisition, and speech perception and production.
- 410G **Theories of Rhetoric and Composition.** 3 hours.  
Classical and contemporary theories of rhetoric and composition with emphasis on application of the theories to writing and to the teaching of writing.
- 411G **Directed Writing.** 3 hours.  
A tutorial for students to work under the supervision of a writing instructor. Students choose the form of writing they wish to pursue.
- 412G **History and Theory of Rhetoric.** 3 hours.  
Survey of classical, traditional, and contemporary rhetoric as applied to written discourse. Emphasis on invention, arrangement, and style. Readings include the work of classical and modern rhetoricians. Consideration of rhetorically oriented methods of teaching written discourse.
- 455G **American Drama.** 3 hours.  
See Department of Theatre and Dance.
- 456G **Elizabethan Drama.** 3 hours.  
See Department of Theatre and Dance.
- 458G **Modern British Novel.** 3 hours.  
Techniques and rationale in representative works of major British novelists from the era of Joseph Conrad to the present. Intellectual climate of period.
- 459G **Modern Drama.** 3 hours.  
See Department of Theatre and Dance.
- 460G **Literary Criticism I.** 3 hours.  
Critical theory and practice of significant literary critics of the Western world from the Greek and Roman periods through the English Neo-Classical period.
- 469G **Introduction to Teaching English as a Second Language.** 3 hours.  
Theories, methods, and materials for teaching English as a second or foreign language.
- 470G **Methods and Materials Teaching English as a Second Language.** 3 hours.  
Prerequisites: Eng 469/469G and one linguistics course. Develops skills, procedures, and strategies for teaching and utilizing commercial materials for the teaching of English as a second language. Cross-listed with Sec. Ed. 484G.
- 481G **Chaucer.** 3 hours.  
Representative works of Chaucer; backgrounds; outside readings and reports.
- 482G **Shakespeare I.** 3 hours.  
Selected major Shakespearean plays read and studied in the light of the Elizabethan period as representing typical dramatic writing and production.

- 483G The English Renaissance.** 3 hours.  
Non-dramatic literature of the Renaissance, with emphasis on Spenser.
- 484G The Romantic Movement.** 3 hours.  
Background and phases of romanticism; representative exponents of the Romantic Movement.
- 485G The Seventeenth Century.** 3 hours.  
Seventeenth century literature, forms, and developments.
- 486G The Eighteenth Century.** 3 hours.  
Eighteenth century literature, forms, and developments.
- 488G Literature of the Victorian Age.** 3 hours.  
Selected works by major poets, essayists, and novelists of Victorian England as a reflection of the culture of the age.
- 489G The English Novel.** 3 hours.  
Technique and history of the novel. Several representative novels studied.
- 490G The American Novel.** 3 hours.  
American novel from Cooper to present. History, development, and technique. Representative novels studied.
- 493G Major American Poets.** 3 hours.  
The major poems, the styles and the poetic intent of the most important American poets from Poe to the present.
- 494G Kentucky Literature.** 3 hours.  
Survey of literary people and places in Kentucky, including detailed study of several works of Kentucky writers.
- 495G Southern Literature.** 3 hours.  
Covers major, minor, and "regional" writers of the South.
- 496G Women's Poetry.** 3 hours.  
An examination of the themes, aesthetic importance, and historical context of canonical and non-canonical poems by women, with emphasis on twentieth century American and British women writers.
- 497G Women's Fiction.** 3 hours.  
An examination of the themes, aesthetic importance, and historical context of canonical and non-canonical fiction by women, with emphasis on twentieth century American and British women writers.
- 498G Robert Penn Warren.** 3 hours.  
An intensive study of the fiction, poetry, and non-fiction of Robert Penn Warren, a major writer of particular interest and importance to our English program at Western.
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## DEPARTMENT OF GOVERNMENT

### GRISE HALL

ROOM 300 (502) 745-4558

**John D. Parker, Head**

**Professors:** C. Chelf, E. Kearney, G. Masannat, J. Parker, J. Petersen, J. Uveges

**Associate Professor:** C. Hamilton

**Degrees Offered:** Master of Public Administration, Master of Arts in Education (Government major or minor)

**Master of Arts in Education** (Government major or minor)

Since this program is designed for the public school teacher, the student following it must meet all requirements for standard high school certification.

**Government major/Secondary Education minor:**

Education component (12 hours): Ed Fnd 500; Sec Ed 544; Sec Ed 580 and 3 hours from Psy 510, 511 or 519.

Government component (18 hours): Eighteen hours of advisor-approved graduate level government courses, of which at least 15 hours must be at the 500 level.

**Government minor/Secondary Education major:**

Education component (18 hours): Ed Fnd 500; Sec Ed 544; Sec Ed 580 and 3 hours from Psy 510, 511 or 519. Two 3-hour electives in education.

Government component: Twelve hours of advisor-approved graduate level government courses.

### Master of Public Administration

The Master of Public Administration is designed to provide knowledge and skills appropriate for professional career development in governmental and/or quasi-governmental organizations. It is designed to (1) prepare college graduates (pre-service) for leadership roles in public service and (2) provide opportunities for practicing public managers and community leaders (in-service) for additional training and career development.

The degree requires 33-36 semester hours of coursework including completion of 15-18 hours of core courses.

An internship is required of all students lacking appropriate previous administrative or managerial experience. A final written comprehensive examination must be passed. Thesis not required.

Requirements are as follows:

**Core courses (15-18 hours)**

Govt 441G Public Prsnl Adm  
Govt 442G Govt Fincl Adm  
Govt 501 Meth of Pol Inq  
Govt 540 Seminar in Pub Sec Org  
Govt 545 Seminar in Pub Pol Anlys  
Govt 598 Internship in Pub Adm

**Electives (18 hours)**

Govt 415G Federalism and Public Policy  
Govt 417G Urban Pol System  
Govt 424G Adm Law  
Govt 440G Elements of Pub Adm  
Govt 510 Problems in Nat'l Govt  
Govt 511 Seminar in State Govt  
Govt 538 Ethics and Bureaucracy  
Govt 546 Pub Pol Evaluation  
Govt 549 Sp Prob in Pub Admin.  
Govt 597 Prof Seminar in Pub Adm  
Econ 420G Pub Finance  
Econ 430G Env & Resource Econ  
Econ 434G Econ of Poverty & Discrim  
Econ 588 Public Sec Econ  
Geog 484G Planning: Thry and Appl  
Psy 551 Soc Psy of Org  
Soc 542 Community  
Scm 461G Org Communication

**Graduate Courses in Government**

- 501 **Methods of Political Inquiry.** 3 hours.  
Analysis and description of the logic and procedures necessary for valid political inquiry.
- 510 **Problems in National Government.** 3 hours.  
Research, reports, and discussion of selected aspects of national government.
- 511 **Seminar in State Government.** 3 hours.  
Selected problems of state governments and their subunits.
- 520 **Seminar in Public Law.** 3 hours.  
Exposition, discussion, and analysis of concepts and issues in jurisprudence, and/or in administrative, constitutional, and international law.
- 530 **Seminar in Political Theory.** 3 hours.  
Analysis of topics in political theory.
- 538 **Ethics and Bureaucracy.** 3 hours.  
Examines the ethical side of public decision making and the values or ends the American political system is designed to promote and protect.
- 540 **Seminar in Public Sector Organizations.** 3 hours.  
Analysis of behavior and problems of public organizations

in democratic environments. Links societal values to administrative structure and behavior.

- 545 **Seminar in Public Policy Analysis.** 3 hours.  
Theoretical approaches to the analysis of public policy, policy-making, and policy implementation and to such topics as health and welfare, poverty, education, and urban affairs.
- 546 **Public Policy Evaluation.** 3 hours.  
Seminar examining the various approaches and techniques for evaluating public programs.
- 549 **Special Problems in Public Administration.** 3 hours.  
Seminar approach to contemporary problems in public organizations reflecting political/managerial developments; topics reflect both student and professional needs.
- 550 **Seminar in International Relations.** 3 hours.  
Individual and group study of theories and practical applications of international relations.
- 560 **Seminar in Comparative Government.** 3 hours.  
Study and research in the areas of democratic and totalitarian government.
- 580 **Directed Study.** 3 hours.  
Faculty guidance of student research in one or more selected fields of political science.
- 597 **Professional Seminar in Public Administration.** 3 hours.  
Principles and techniques in the practice of public administration. Case studies and contact with field professionals will be emphasized.
- 598 **Internship in Public Administration.** 3 hours.  
Work experience in a public sector or non-profit agency combined with faculty direction.

The following 400-level courses may be taken for graduate credit:

- 403G **Field Studies in Politics.** 1 to 4 hours.  
Practical problems of political research. Students will be directed through the design and execution of a major field study.
- 410G **Seminar in National Government.** 3 hours.  
Research, reports, and discussion of selected aspects of national government.
- 411G **Seminar in State Government.** 3 hours.  
Research, reports, and discussion of selected aspects of state governments and their subunits.
- 412G **Kentucky Government and Politics.** 3 hours.  
Traces the government and political development of the state from its constitutional beginning to the present. Primary focus will be on the major factors and issues in the state's political development within the context of the national governmental setting. The course will trace the role and influence of various political and social institutions in the state's political development and their implications for the current political and governmental situation.
- 415G **Federalism and Public Policy.** 3 hours.  
Study of the nature and impact of American federalism,

including historical, fiscal, economics and political significance.

**417G Urban Political Systems. 3 hours.**

Analyzes contemporary American urban political systems; focuses on socio-economic values in the urban political culture and how they relate to political structures and activities; selected urban problems are reviewed.

**423G Jurisprudence. 3 hours.**

The nature of law; origins, evolutions and characteristics of the common and Roman law systems; principal schools of the legal theory; and the arrangement, methods and processes of the law.

**424G Administrative Law. 3 hours.**

A study of the development of and trends in administrative law with emphasis on the problems caused by the exercise of quasi legislative and quasi judicial powers by administrative agencies, including the rights, duties and liabilities of public officials, relief against administrative action, jurisdiction, conclusiveness and judicial control.

**440G Elements of Public Administration. 3 hours.**

Introductory survey of governmental administration; emphasizes relationships between political issues and the practice of administration in areas such as organizational structures, personnel and financial management, control and accountability, and ethical issues.

**441G Public Personnel Administration. 3 hours.**

A systematic survey of public personnel administration in the U.S. Discusses the development of modern personnel systems in the public sector and emphasizes contemporary trends at the state and local level as well as the national level of government.

**442G Government Financial Administration. 3 hours.**

A study of the financial administration process of government, with emphasis on local government. Subjects covered range from budgeting to risk management.

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## DEPARTMENT OF HISTORY

### CHERRY HALL

ROOM 200 (502) 745-3842

Richard Troutman, Head

#### Graduate Faculty

**Professors:** J. Baker, C. Bussey, C. Crowe-Carraco, D. Harrington, R. Haynes, C. Jackson, D. Lee, M. Lucas, F. Murphy, R. Salisbury, R. Stone, J. Thacker, R. Troutman, R. Weigel

**Associate Professors:** J. Hardin, H. Phillips

**Assistant Professors:** R. Antony, A. Bates, R. Dietle, J. Thompson

**Degrees Offered:** Master of Arts in History, Master of Arts in Education (History major or minor).

#### Master of Arts in History

This program is designed to prepare students for the teaching of history on the junior or senior college level; to provide the initial graduate work for those who intend to pursue a doctoral degree; and to enhance the preparation of secondary teachers of history who desire to meet certification requirements through such a program.

In addition to meeting general Graduate Studies requirements, the applicant must present a major or minor in history with approximately a B average in this field.

A student who has an undergraduate major in history may be permitted to take six to nine hours of graduate work in a related field in courses approved by the Graduate Advisory Committee. A student who presents an undergraduate minor in history must complete the entire program in the field of history.

Both Plan A (thesis) and Plan B (non-thesis) are available. Plan A requires a minimum of 24 hours of coursework, including Historiography 435G (unless previously taken) and the thesis. Reading proficiency in a modern foreign language must be demonstrated.

Plan B requires 36 hours. Historiography 435G must be included in the program or used as a research tool. The research tool may be met by (1) demonstrating proficiency in a foreign language, (2) completing Math 203--Statistics, or (3) completing History 435G.

Students should contact the History Graduate Advisor early in their programs for a list of books that they will need to study in preparation for the comprehensive exam. Students must pass the comprehensive exam (oral and written) over coursework, bibliography, and thesis (if plan A).

#### Master of Arts in Education. (History Major or Minor)

Since this program is designed for the public school teacher, the student following it must meet all requirements for standard high school certification. A minimum of 18 hours is required for a major. A maximum of 15 or a minimum of 12 hours is required for a minor. The remaining hours must be taken in professional education courses.

#### Master of Arts in Education (Social Science Area major)

This program provides coursework in the social

science area for the public school teacher who is pursuing the master's degree and the standard high school certificate. The social science area major will consist of a minimum of 18 hours in the social sciences with the required 12 hours in professional education courses for the 30-hour program.

### History and the Humanities Program

History is an integral part of the program leading to the Master of Arts in Humanities degree. As a general rule, students under the humanities program who enroll in graduate courses in history must have at least 18 hours of history as a prerequisite.

### Graduate Courses in History

- 500 **Cultural and Social Aspects of American Life.** 3 hours.  
Designed for graduate students who have undergraduate majors in the field of elementary education.
- 501 **World History for Secondary Teachers.** 3 hours.  
Emphasis on bibliography, documents, historical interpretations and materials useful for secondary teachers of history.
- 502 **United States History for Secondary Teachers.** 3 hours.  
Emphasis on bibliography, documents, historical interpretations and materials for secondary teachers of history.
- 515 **Nineteenth Century Britain.** 3 hours.
- 521 **United States 1900-1945.** 3 hours.
- 525 **Social and Intellectual History of the U.S.: Nineteenth Century.** 3 hours.
- 526 **Social and Intellectual History of the U.S.: Twentieth Century.** 3 hours.
- 527 **Social and Intellectual History of Europe: Nineteenth Century.** 3 hours.
- 554 **Discovery and Interpretation of Local History.** 3 hours.  
Materials, methodology and techniques employed in local history research and its integration with other fields.
- 569 **Cooperative Education in History.** 3 hours.  
Practical experience in a supervised work situation with a cooperating library, museum, archives, or other appropriate historical organization.
- 590 **Advanced Individual Study.** 3 hours.  
Prerequisite: 3.0 average in at least 9 hours at the graduate level.  
A research problem or intensive readings directed by a faculty member. May be repeated once with a different topic.
- 599 **Thesis Research and Writing.** 6 hours.
- 600 **Maintaining Matriculation.** 1 to 6 hours.
- 605 **Seminar in Ancient History.** 3 hours.  
May be repeated once with a different topic.

- 606 **Seminar in European History.** 3 hours.  
Graduate seminar in such diverse areas as the Middle Ages, Renaissance, Reformation, and Nazi Germany. May be repeated once with a different topic.
- 615 **Seminar in Non-Western History.** 3 hours.  
Seminar on a selected topic or area of the non-Western world, including China, Japan, Middle East, Africa and Latin America.
- 619 **Seminar in United States Diplomatic Relations.** 3 hours.  
May be repeated once with a different topic.
- 622 **Seminar in Western United States History.** 3 hours.  
May be repeated once with a different topic.
- 630 **Seminar in United States History.** 3 hours.  
Graduate seminar in such diverse areas as Colonial America, the Federalist era, the Slavery Controversy, the U.S. since 1945. May be repeated once with a different topic.
- 631 **Seminar in Kentucky History.** 3 hours.
- 640 **Seminar in College Teaching.** 3 hours.  
Course organization, lecture preparation, professional development, ethics, testing procedures, and library development.

### The following 400-level courses may be taken for graduate credit:

- 404G **Ancient Egypt.** 3 hours
- 419G **Tudor-Stuart England.** 3 hours.
- 422G **The French Revolution and Napoleonic Era.** 3 hours.
- 425G **Modern Germany.** 3 hours.
- 426G **Hitler and Nazi Germany.** 3 hours.  
In-depth study of German history between 1933 and 1945.
- 428G **England Since 1914.** 3 hours.
- 435G **Historiography.** 3 hours.
- 440G **Colonial History of the United States.** 3 hours.
- 441G **The Formative Period, 1776-1815.** 3 hours.
- 442G **The Jacksonian Era. 1815-1850.** 3 hours.
- 443G **Civil War and Reconstruction, 1850-1877.** 3 hours.
- 444G **The United States, 1870-1900.** 3 hours.
- 449G **Korea and Vietnam.** 3 hours.  
In-depth study of both Korean and Vietnam conflicts.
- 450G **Diplomatic History of the United States to 1898.** 3 hours.
- 451G **Diplomatic History of the United States Since 1898.** 3 hours.
- 452G **Urban History.** 3 hours.
- 453G **Women in American History.** 3 hours.  
Analysis of the role played by American women in the



social, political, and economic phases of U.S. history.

- 454G The History of Religion in America.** 3 hours.  
Survey of the development of religion in America. Among topics: separation of church and state and American civil religion.
- 456G Kentucky History.** 3 hours.
- 457G The Old South.** 3 hours.
- 458G The New South.** 3 hours.
- 459G The Immigrant in American History.** 3 hours.
- 460G Traditional East Asia.** 3 hours.  
Survey of the political, socioeconomic, intellectual, and cultural history of China and Japan to 1600.
- 464G Latin America and the United States.** 3 hours.
- 465G The Mexican Republic.** 3 hours.
- 471G Modern China.** 3 hours.  
Detailed study of rise of modern China since the 17th century.
- 472G Modern Japan.** 3 hours.  
Analysis of modern Japanese history since 1600 with special emphasis on transformation from feudal to modern state.
- 479G Topics in the Third World.** 3 hours.  
Intensive study of a selected Third World topic.
- 480G A Social History of Science.** 3 hours.
- 490G Topics in History I.** 3 hours.  
Detailed study of selected topics in history.
- 491G Topics in History II.** 3 hours.

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## DEPARTMENT OF JOURNALISM

**GORDON WILSON HALL  
ROOM 300 (502) 745-4143**

**Jo-Ann Huff Albers, Head**

A graduate program is not offered by the Department of Journalism. However, students in other departmental programs may elect coursework from the limited offering in this area.

**The following 400-level courses may be taken for graduate credit:**

- 427G School Journalism.** 3 hours.  
A course designed to meet the state requirements for secondary certification in journalism. Explores resources available to journalism teachers and the responsibility of

publication advisors. (On demand)

- 481G Problems in Mass Communications.** 3 hours.  
Individualized research, management, production, etc., in the fields of mass communication activities. May be repeated once for credit.

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## DEPARTMENT OF MODERN LANGUAGES AND INTERCULTURAL STUDIES

**IVAN WILSON CENTER  
ROOM 251 (502) 745-2401**

**Lynwood Montell, Interim Head**

### Graduate Faculty

**Professors:** J. Babcock, T. Baldwin, J. Miller, L. Montell

**Associate Professors:** C. Collins, N. Love, R. Padilla, M.A. Williams

**Assistant Professors:** E. Brady, K. Egloff, C. Keyes, M. Stewart

**Degrees Offered:** Master of Arts in Folk Studies. Master of Arts in Education: Spanish major or minor; French major or minor; German major or minor; Folk Studies minor only.

The Historic Preservation option is available under the Master of Arts in Folk Studies.

### Master of Arts in Education

Majors and minors are available in French, German, and Spanish. Since this program is designed for the public school teacher, students following it must meet all requirements for the standard high school certificate. Those persons majoring in French, German, or Spanish must take 18 hours in the major language. Those minoring in French, German, or Spanish may take a minimum of 12 and a maximum of 15 hours. The remaining hours will be taken in professional education. At least half of the required hours of coursework must be at the 500-level or above.

### Graduate Courses in Modern Languages

#### French

- 520 Seminar in French Literature or Language.** 3 hours.

- 524 **Nineteenth Century French Novel.** 3 hours.
- 526 **Modern French Poetry.** 3 hours.
- 529 **Seminar in French Literature.** 3 hours.
- 590 **Comparative Romance Linguistics.** 3 hours.
- 601 **Seminar in College Teaching.** 3 hours.

### German

- 538 **Seminar in German Literature.** 3 hours.
- 539 **Seminar in German Literature or Language.** 3 hours.
- 601 **Seminar in College Teaching.** 3 hours.

### Spanish

- 570 **Literature of Spain's Golden Age.** 3 hours.  
Prose fiction, drama and poetry during the period 1479 to 1635.
- 572 **Nineteenth Century Literature.** 3 hours.  
The novel, drama and poetry in 19th century Spanish literature.
- 575 **Twentieth Century Prose.** 3 hours.  
The novel and the essay of the Generation of '98 and the novel of the post-civil war period in Spain.
- 576 **Twentieth Century Poetry and Drama.** 3 hours.  
The drama of Spain from the Generation of '98 through the contemporary period, with emphasis on Benavente and Garcia Lorca. Poetry from the Modernists through the contemporary period, with emphasis on Jimenez, Machado, and Garcia Lorca.
- 578 **Seminar in Hispanic Literature or Language.** 3 hours.  
May be repeated once.
- 590 **Comparative Romance Linguistics.** 3 hours.
- 601 **Seminar in College Teaching.** 3 hours.

The following 400-level courses may be taken for graduate credit:

### French

- 420G **Advanced French Composition and Stylistics.** 3 hours.  
Prerequisite: Fr 320.  
Creative self-expression, refinement of grammatical understanding, the art of translation, and stylistic devices.
- 421G **Advanced French Conversation.** 3 hours.  
Prerequisite: Fr 321.  
Discussion on assigned topics and reports on current newspaper and magazine articles. Special emphasis on idiomatic expression.
- 422G **History of the French Language.** 3 hours.  
Prerequisite: Fr 221.  
Phonological, morphological, syntactic, and lexical changes which turned the Latin spoken in Gaul into modern standard French. No previous training in linguistics

required.

- 425G **Nineteenth Century French Literature.** 3 hours.  
Prerequisite: Fr 326 or permission of instructor.  
Romantic, Realistic, and Naturalistic trends of the 19th century, as exemplified in the French novel.
- 426G **Twentieth Century French Literature.** 3 hours.  
Prerequisite: One 300-level French literature course.  
A study of the works of major French writers of the 20th Century.
- 427G **Francophone Culture.** 3 hours.  
Prerequisites: FR 323  
Covers all Francophone countries (including France) and deals with various aspects of culture: oral literature (legends, customs, etc.), music, religion.
- 429G **Studies in French Literature or Language.** 3 hours.  
Topic selected in consultation with assigned instructor (may include literature or language). May be repeated once.
- 440G **Early French Literature.** 3 hours.  
Prerequisite: Fr 324, 325 or equivalent.  
A study of French literature from its written origins to the sixteenth century in modern French or English translation. Brief look at the Old French language. Works representative of: Arthurian romances, chansons de geste, fabliaux, lyric poetry and crusade chronicles will be included.
- 441G **Sixteenth Century French Literature.** 3 hours.  
Prerequisite: Fr 324, 325 or equivalent.  
Study of French literature of the sixteenth century in modern French with varying emphases on the French Renaissance, humanist movement, poets of the Pleiade such as Ronsard and Du Bellay, the prose of Rabelais and Montaigne.
- 442G **Seventeenth Century French Literature.** 3 hours.  
Prerequisite: Fr 324, 325 or equivalent.  
Study of French literature of the seventeenth century with varying emphases on French verse, theatre, classicism, and prose in fiction and the moralist tradition, and featuring such authors as Descartes, Pascal, La Fontaine, Moliere, Corneille, Racine, La Rochefoucauld, and La Bruyere.
- 443G **Eighteenth Century French Literature.** 3 hours.  
Prerequisite: Fr 324.  
Study of French literature of the eighteenth century with varying emphases on the French Enlightenment, Encyclopedie, theatre, verse, and prose in treatises, (pseudo) memoirs, and epistolary novels. Works will be drawn from such authors as: Montesquieu, Voltaire, Diderot, Rousseau, and Beaumarchais.
- 445G **French Canadian Literature.** 3 hours.  
Prerequisite: Fr 321, 324, 325, or 326, or instructor's permission.  
A survey of the Quebecois novel, theatre and poetry through a selection of 19th and 20th century writers.

### German

- 430G **Advanced German Composition and Conversation.** 3 hours.  
Intensive practice in written and spoken German, enabling the student to write letters, reports, essays, and

descriptions and to discuss literary, cultural, and political topics.

**432G History of the German Language.** 3 hours.  
Prerequisite: One 300-level German course.  
Study of the origin of the German language from Indo-European to 1945, including a brief survey of German dialects.

**435G German Literature of the 19th and 20th Centuries.** 3 hours.  
Major German, Austrian, and Swiss writers of the 19th and 20th centuries, with emphasis on prose and drama.

**436G German Literature of the Classical Period.** 3 hours.  
Prerequisite: Ger 334.  
The outstanding works of Goethe, Schiller, and other authors of the late 18th and early 19th centuries.

**438G Survey of the German Lyric.** 3 hours.  
Prerequisite: Ger 334.  
German lyric poetry from the earliest times to the present. Representative works and authors.

**439G Studies in German Literature or Language.** 3 hours.  
May be repeated once.

## Spanish

**470G Advanced Oral Spanish.** 3 hours.  
Prerequisite: Spn 370.  
Conversation units, dramatic sketches, original oral topics.

**471G Advanced Spanish Composition.** 3 hours.  
Prerequisite: Spn 371.  
Examination of selected literary works; original compositions on selected topics.

**472G Background of Modern Spanish.** 3 hours.  
Prerequisite: Spn 371.  
History of the Spanish language, stresses the development of sounds and forms, word borrowings, and changes in meanings.

**475G Spain: From the Golden Age to the Age of Realism.** 3 hours.  
Chronological presentation of the culture of Spain through the study of literary masterpieces. Ideas and characteristics of cultural and literary periods in Spain and approaches to literary texts will be discussed.

**476G Twentieth Century Spain.** 3 hours.  
Chronological study of the culture of Spain through literary masterpieces of the present century. Ideas and characteristics of cultural and literary periods in Spain and approaches to literary texts will be discussed.

**477G Spanish America: Colonial Period to Modernism.** 3 hours.  
Chronological presentation of the cultures of Spanish America through the study of literary masterpieces from the Colonial period to the end of the nineteenth century. Ideas and characteristics of cultural and literary periods in Spanish America and approaches to literary texts will be discussed.

**478G Twentieth Century Spanish America.** 3 hours.  
Prerequisite: Sp 376 or equivalent.  
Chronological presentation of culture of Spanish America

through literature. Ideas and characteristics of cultural and literary movements.

**479G Studies in Hispanic Literature or Language.** 3 hours.  
May be repeated once.

## Master of Arts in Folk Studies

The study of folklore and folklife involves examination and analysis of traditional expressive culture in all its forms—including oral and material. In every society, literate and non-literate, agricultural and industrial, rural and urban, folklore is a vital part of life. Thus, the discipline has close affinities with literature, anthropology, sociology, history, geography, philosophy, ethno-musicology, and psychology. Adequate undergraduate preparation in any of these disciplines will be acceptable for admission to graduate study in folk studies. The student without sufficient background may be required to take additional courses.

### Plan A (thesis)

This option is intended to provide advanced knowledge of the theoretical and methodological aspects of folklore and folklife. Coursework will emphasize the history of the discipline, field research techniques, and surveys of various folklore genres. It is designed to prepare students for both academic and public sector professions ranging from serving as state folk arts coordinators to teaching in universities, junior colleges, and in high schools.

Plan A requires a minimum of 36 hours plus the research tool. Specific requirements are FS 577, 578, 569, 561, 576, 571; 12-15 hours of electives selected with advisor's approval (hours depend on whether 578 is used as the research tool); and six hours thesis.

The research tool requirement may be met by demonstrating proficiency in a foreign language or by completing FS 578 and replacing it with an additional folklore course. The student must also pass a comprehensive written examination based on coursework and a program reading list.

### Plan B (Applied Folklore Option)

This option requiring a minimum of 36 hours is designed to provide an academically sound alternative for those students who would be better served by the diversity of additional coursework rather than thesis writing, particularly those not planning to pursue doctoral study. This option also permits individually planned programs (with advisor) stressing those combinations of course-related research, "hands on" skills, and writing experiences that will best prepare individuals for their personal and professional goals.

Plan B requires 36 hours of coursework plus the

research tool. Specific requirements of the 18 hour core: FS 577, 578, 569, 561, 576, and 571. In addition, FS 572, 589, and 12-15 hours of electives (hours depend on whether FS 578 is used as a research tool).

The research tool requirements are the same as for Plans A and C. The student must also pass a comprehensive written examination based on coursework and a program reading list.

### Plan C (Historic Preservation Option)

The historic preservation option while firmly grounded in the folk studies curriculum, is designed to introduce students to the multiple facets of historic preservation and cultural conservation theory and practice. Coursework in folk studies will be complemented by coursework in several cooperating departments including geography and history.

Internships with a variety of local, regional and national institutions will also provide opportunity for practical work experience in historic preservation.

Plan C requires a minimum of 36 hours plus the research tool. Specific requirements are: FS 577, 578, 569, 561, 576, 571, 470G, 464G, 560, and Hist 554. The student must select 6-9 hours from the following: GEOG 434G, HIST 525, HIST 526, HIST 452G, FS 486G, FS 589HP, or other electives chosen with advisor's approval.

The research tool requirements and the written examination are the same as for Plans A and B.

### Master of Arts in Education (Folk Studies minor)

This program is designed to enrich teaching content in the public schools in the arts, humanities, and social sciences, and to broaden the teacher's general education background. Admission requirements are the same as for the Master of Arts in Folk Studies. The folk studies minor requires a minimum of 12 hours in folklore, including Folk Studies 577 and 578 and two folklore electives. One course from a related discipline may be substituted for one folklore elective.

### Graduate Courses in Folk Studies

- 500 American Folklore.** 3 hours.  
An overview of American folklore fields: myths, legends, folktales, folksongs, proverbs, beliefs, customs, folk speech, material culture, etc.
- 560 Cultural Conservation.** 3 hours.  
Survey of the history, organization, development, and major issues of cultural conservation, specifically as they relate to folklife and the built environment.
- 561 Folk Arts and Technology.** 3 hours.  
Examination of the study of material folk culture from various methodological and theoretical perspectives, including artifactual analysis, design theory and

ethnoaesthetics.

- 566 Oral History Materials and Methods.** 3 hours.  
Philosophy of oral history, kinds of materials included, methodology, legal and ethical considerations, uses and planning local oral history projects.
- 567 Folklife Studies.** 3 hours.  
An overview of folklore studies focusing on its historical development, methodologies, and theories.
- 569 Folklore Genres.** 3 hours.  
An examination of the oral and material culture genres of folklore, and the theories and methods of genre studies.
- 570 Appalachian Folklore and Folklife.** 3 hours.  
Folklife and culture of the Upland South, with emphasis on verbal and material traditions.
- 571 Folk Narrative.** 3 hours.  
A survey of narrative genres of folklore and applicable scholarship.
- 572 Applied Folklore.** 3 hours.  
Folklore concepts and methods as application-oriented research and public sector concerns with emphasis on social, medical, governmental, and educational programs. Includes relationships with other applied disciplines.
- 573 Seminar in Interpretation of Myth.** 3 hours.  
Principal contemporary modes of research in interpretation of myth.
- 574 Urban Folklore.** 3 hours.  
Folkloric and cultural aspects of urban America, with emphasis on the traditions of ethnic, immigrant, occupational, and subcultural segments.
- 576 American Traditional Song.** 3 hours.  
Interdisciplinary examination of American folksong and folkmusic including ethnic, regional, and occupational manifestations. Emphasis on both conventional genres and cultural contexts.
- 577 Folklore Theories and Techniques.** 3 hours.  
Folklore scholarship, its historical development, and its principal bibliographical materials and their uses.
- 578 Folklore Fieldwork and Oral History.** 3 hours.  
Examination of and practical experience in theories and techniques of folklore fieldwork and oral history.
- 579 Directed Study and Research in Folklore.** 3 hours.  
Prerequisite: FS 578 or demonstrated ability to work independently.  
Supervised individual study under the direction of a member of the folklore graduate faculty.
- 580 Folklore Conversation and Communication.** 3 hours.  
Forms of folklore which occur within a conversational stream. Attention to proverbs, riddles, speech play, and belief. Expressive culture as a particular culture-specific mode of communication.
- 585 Topics in Folklore.** 3 hours.  
Topics in current interest in the field. Content varies according to the instructor and apparent needs of the students. May be repeated once.

- 589 Internship in Folk Studies.** 3 hours.  
Supervised work situation with co-operating business, industry, social or governmental agency, emphasizing application of advanced knowledge and skills in folk studies.
- 589HP Internship in Historic Preservation.** 3 hours.  
Supervised work situation with a co-operating business, industry, social or governmental agency, emphasizing application of advanced knowledge and skills in historic preservation
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

The following 400-level courses may be taken for graduate credit:

- 446G Restoration of Historic Interiors.** 3 hours.  
Design and other aspects of interior historic restoration of both academic and vernacular structures. Attention focused on aesthetic issues of designing domestic and commercial historic interiors for restoration. Cross-listed with Home Economics and Family Living 446G.
- 447G History of Architecture Interiors III.** 3 hours.  
Analysis of styles in architectures and interiors from ca. 1900 to present time. Emphasis on interiors and furnishings of both academic and vernacular structures and the forces which affected their development. Cross-listed with Home Economics and Family Living 447G.
- 462G Folk Medicine.** 3 hours.  
Historical circumstances, associations, and logic of traditional non-scientific medical practices. Cross-listed with Health and Safety.
- 464G Vernacular Architecture** 3 hours.  
The forms, functions, and styles of buildings constructed according to custom from local materials to meet individual and cultural preferences.
- 470G Museum Procedures and Preservation Techniques.** 3 hours.  
Essential aspects of museums and of preservation, i.e., collecting, preserving, researching, exhibiting, and interpreting material culture.
- 478G Folklore in Literature.** 3 hours.  
Readings in world literature from the Bible to the modern novel; aspects of folklore reflected there; the effects of unwritten literature on origins and development of written literature.
- 480G Women's Folklife.** 3 hours.  
Images and roles of women in American and selected world cultures as reflected in folklife materials such as narratives, beliefs, ballads, rhymes, games, customs, and folk arts and crafts.

#### African-American Studies

- 410G African American Music.** 3 hours.  
Survey of selected musical styles created and developed

by African Americans from the 17th to the 20th century.

- 480G Directed Independent Study in African-American Topics.** 1 to 3 hours.  
Selected topics dealing with the life and times of the people of African ancestry in Africa and the Americas.
- 490G African-American Seminar.** 3 hours.  
Topics dealing with the African or African-American past and present.

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#### DEPARTMENT OF MUSIC

**IVAN WILSON CENTER  
ROOM 351 (502) 745-3751**

**John A. Duff, Head**

#### Graduate Faculty

**Professors: K. Campbell, S. Kersenbaum, C. Smith**

**Associate Professors: M. Kallstrom, D. Kelsey, R. Swanson, E. Volkman**

**Assistant Professors: G. McKercher, C. Norton, C. Reardon, M. Scott, J. Stites**

**Degrees Offered:** Master of Music, Master of Arts in Education (Music major or minor).

The graduate programs in music function to provide continued development of (1) individual talents and interests which will result in enrichment of their personal lives and will enable them to preserve and extend our cultural heritage, and (2) professional and scholarly competence in organization, interpretation, evaluation, communication and dissemination of knowledge in the discipline. The Master of Arts in Education (Music Major) further enables the teacher/practitioner to meet requirements of standard high school certification mandated by the state of Kentucky.

#### Master of Music (Major in Performance)

This program is designed for students who seek a career in performance or private studio teaching in college or community. In addition to the general Graduate Studies requirements, the applicant must have a bachelor's degree in music with a grade point average in music subjects of at least 3.0. In addition,

the individual must demonstrate ability and knowledge through examination in music theory, music literature, and the chosen area of performance.

The major in performance requires a minimum of 30 hours as follows:

Applied Music: 15 hours (Mus 449G, 510, 556, 557, 559, and one hour of major ensemble or applied secondary.)

Music Literature, Theory, Composition, Orchestration and Arranging, Conducting, Directed Individual Study, or Music Psychology: 12 hours (Must include a minimum of one course each in music literature and music theory.)

Electives: 3 hours (Selected with approval of advisor from Music, Music Education, Education, or Arts and Sciences.)

Voice majors are required to demonstrate ability to sing in English and three foreign languages. Any deficiency in this area may require extra coursework. A full length public recital is required in lieu of a thesis.

All students pursuing the Master of Music will be administered a written comprehensive examination at the completion of their coursework.

#### **Master of Arts in Education (Music major or minor)**

This degree program requires a minimum of 30 hours. Since this program is designed for the public school teacher, the student following it must meet all requirements for the standard certification. Twelve hours must be selected from the following courses: EDFN 500 or Music 511; SEC 580; SEC 544 or ELED 544; PSY 510 or PSY 511.

The music specialization component must include twelve hours, with at least two fields represented. Selections will be made from: Music 500, 501, 513, 518, 525, 530, 407G, and 417G, each three hours; 402G, 403G, and 405G, each two hours; 453G or 454G for a maximum of two hours; and 440G, 441G, 444G 445G, 448G, 449G and 471G for a maximum of one hour.

For the elective individualization component, students will select six hours from the following list, or from courses not selected in the specialization component, or from professional education courses approved by the education advisor in consultation with the music advisor; Mus 509, 512, 514, 515, 414G, 415G, and 416G, each three hours; and 450G or 451G for a maximum of one hour.

Each of the courses, Music 512, 513, and 530 may be repeated for an additional three hours credit with approval of the advisor.

A comprehensive written examination is required of all candidates near the end of their coursework. The minor requires a minimum of twelve or a maximum of fifteen hours in music. The remaining hours will be

taken in professional education courses. A typical program consists of a balanced selection of music education and music literature offerings. In addition, consideration is given to those with an interest in music theory, instrumental arranging, applied music (primary or secondary) or a related field.

NOTE: The minor in music will standardize those having the provisional high school certificate. It will not standardize those provisional certificates "for the teaching of music."

#### **Graduate Courses in Music**

- 500 Seminar in Theory.** 3 hours.
- 501 Analytical Techniques.** 3 hours.  
Harmonic and contrapuntal analysis in various styles.
- 509 General Music in the Elementary and Middle Schools.** 3 hours.  
Includes advanced study of contemporary elementary music education trends, methodologies, instructional techniques, and materials. Expands contemporary instructional methods.
- 510 The Teaching of Applied Music.** 3 hours.  
Investigation of pedagogical problems in a specific performance area of music.
- 511 Investigations of Music Education.** 3 hours.  
Problems and Methods of research in music education. Includes application of pure and action research and investigation of published research in music education.
- 512 Music Education Workshop.** 1 to 3 hours.  
A variable topic workshop that may be repeated for a total of six hours.
- 513 Directed Individual Study.** 3 hours.  
Research projects in music education.
- 514 General Music in the Secondary Schools.** 3 hours.  
Training the music teacher to provide orientation experiences for junior and senior high school non-performers.
- 515 Administration and Supervision of Public School Music.** 3 hours.  
Current trends in educational thought and implications of administration, instruction and evaluation of public school instrumental music.
- 518 Advanced Conducting.** 3 hours.  
Course designed to sharpen and enhance skills as an ensemble conductor. Emphasis on specific conducting problems, rehearsal techniques and score study.
- 525 Music and the Human Experience.** 3 hours.  
An investigation and study of the art of music encompassing the historical, philosophical, psychological and sociological tenets of the discipline.
- 530 Music Literature.** 3 hours.  
Investigation of a specialized area not covered in other music literature courses.
- 538 Directed Individual Study.** 3 hours.



Supervised private research culminating in a scholarly paper.

556, 557,

558 **Applied Music Major.** 4 hours.  
(MM in Performance only)

559 **Graduate Recital.** 2 hours.  
Required of candidates for the Master of Music Degree.

599 **Thesis Research and Writing.** 6 hours.

600 **Maintaining Matriculation.** 1 to 6 hours.

The following 400-level courses may be taken for graduate credit:

402G **Counterpoint I.** 2 to 3 hours.  
Prerequisite: Theory 201  
Sixteenth Century polyphony.

403G **Counterpoint II.** 2 to 3 hours.  
Prerequisite: Counterpoint I.

405G **Choral Arranging.** 2 hours.

407G **Orchestration and Band Arranging.** 3 hours.  
Prerequisite: Theory IV.

414G **Choral Materials.** 2 hours.

415G **Choral Methods.** 2 hours.

416G **Instrumental Methods.** 3 hours.

417G **Marching Band Techniques.** 2 hours.

430G **Music Literature.** 2 to 3 hours.  
A survey embracing music of several periods, styles, and forms.

432G **Research Techniques in Music.** 3 hours.

440G **Choral Union.** 1 hour.

441G **Choir.** 1 hour.

444G **Orchestra.** 1 hour.

445G **Chamber Singers.** 1 hour.

448G **Band.** 1 hour.

449G **Chamber Music.** 1 hour.

450G, 451G **Applied Music Secondary.** 1 hour.

453G, 454G **Applied Music Principal.** 2 hours.

471G **Jazz Ensemble.** 1 hour.

## DEPARTMENT OF PHILOSOPHY AND RELIGION

### CHERRY HALL

ROOM 300 (502) 745-3136

Alan B. Anderson, Head

### Graduate Faculty

**Professors:** A. Anderson, M. Howe, L. Mayhew, E. Schoen, J. Trafton, D. Tuck, R. Veenker, A. Vos

**Associate Professors:** J. Garrett, J. Long, M. Seidler

**Degree Offered:** Master of Arts in Humanities (an interdepartmental program).

### Master of Arts in Humanities

The M.A. program in humanities is designed to provide the student with a broad background in disciplines central to the humanities and a particular focus or option in a single field of study.

The program consists of a 15 hour core, a 15 hour option, which must include 598--Humanities Essay (3 hours) or 599--Thesis Research and Writing (6 hours), and a final written examination. The student must also demonstrate reading ability in either French, German, or Greek. Another language may be substituted if it is required for the student's research and it is approved by his or her advisor.

The core of the program consists of courses in four humanities disciplines and a basic methodology course in interdisciplinary studies as follows:

English 520, Introduction to Graduate Studies (3 hours);

History 435G, Historiography, 3 hours

Philosophy 501, Readings in Philosophy, 3 hours

Religious Studies 501, Graduate Seminar in Religious Studies, 3 hours

Philosophy 500, Humanities Seminar, 3 hours

Options available in the M.A. in Humanities program include:

(1) A concentration in the history of ideas of a particular cultural epoch. The student electing this option will select one of three periods in the West (Ancient and Medieval, Renaissance through Enlightenment, or Nineteenth and Twentieth Centuries) or an approved period in another culture. The research for the essay or thesis must also be in this period and must demonstrate a knowledge of the unifying relationships which exist among the various disciplines in the humanities.

(2) A concentration in a particular discipline. In the context of the broad background provided by the core, all course work outside the core must be in one of the following disciplines: English, French, German, history, philosophy, or religious studies.

The M.A. in Humanities program is administered by the Office of the Dean, Potter College of Arts, Humanities, and Social Sciences. Inquiries should be addressed to that office.

### Graduate Courses in Philosophy

- 500 **Humanities Seminar.** 3 hours.  
Problems in and approaches to interdisciplinary study.
- 501 **Readings in Philosophy.** 3 hours.  
Philosophic classics or readings in a selected area of philosophy.
- 502 **Seminar in Ancient and Medieval Philosophy.** 3 hours.  
Topics in ancient and medieval philosophy. May be repeated with different topics.
- 503 **Seminar in Modern Philosophy.** 3 hours.  
Philosophers or topics in modern philosophy. May be repeated with different topics.
- 504 **Seminar in Contemporary Philosophy.** 3 hours.  
Philosophers or topics in contemporary philosophy. May be repeated with different topics.
- 598 **Humanities Essay.** 3 hours.
- 599 **Thesis Research and Writing.** 6 hours.
- 600 **Maintaining Matriculation.** 1 to 6 hours.

The following 400-level Philosophy courses may be taken for graduate credit:

- 401G **Readings in Philosophy.** 3 hours.
- 402G **Theory of Knowledge.** 3 hours.  
Selected topics such as rationalism, empiricism, pragmatism, idealism, skepticism, explanation, theories and evidence, justification, perception, reference, and meaning.
- 403G **Metaphysics.** 3 hours.  
Selective exploration of central problems in metaphysics, such as the nature of persons, the status of universals, or the structure of space and time.
- 405G **Existentialism.** 3 hours.
- 425G **Twentieth Century British Philosophy.** 3 hours.
- 499G **Research in Philosophy.** 3 hours.

### Graduate Courses in Religious Studies

- 501 **Graduate Seminar in Religious Studies.** 3 hours.

Specific issues in one of the areas of concentration.

- 510 **Seminar in Religious Literature.** 3 hours.  
Selected literature from one major religious tradition. May be repeated with different topics.
- 520 **Seminar in Religious History.** 3 hours.  
Significant topics, movements, or events in the development of one major religious tradition. May be repeated with different topics.
- 530 **Seminar in Religious Thought.** 3 hours.  
Selected topics or thinkers from one major religious tradition. May be repeated with different topics.

The following 400-level Religious Studies courses may be taken for graduate credit:

- 400G **Contemporary Religious Thought.** 3 hours.
- 401G **Religious Studies Seminar.** 3 hours.
- 405G **Current Issues in New Testament Studies.** 3 hours.
- 415G **Old Testament Themes.** 3 hours.
- 430G **Christianity to 1517.** 3 hours.  
Development of Christian thought and institutions Prior to the Reformation.
- 431G **Christianity from 1517 to the Present.** 3 hours.  
Development of Christian thought and institutions from the Reformation to the present.
- 440G **Judaism.** 3 hours.
- 445G **Religious Traditions of Israel.** 3 hours.
- 475G **Religions of South Asia (India)** 3 hours.
- 480G **Religions of East Asia (China and Japan).** 3 hours
- 499G **Research in Religious Studies.** 3 hours.

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### DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

GRISE HALL 101 (502) 745-3759

Paul R. Wozniak, Head

### Graduate Faculty

Professors: F. Baali, E. Bohlander, T. Dunn, J. Faine, A. Goetting, J. Grimm, K. Kalab, J. Krenzin, J. Schock, P. Wozniak

**Associate Professors:** S. Tuthill

**Assistant Professors:** S. Groce, L. Newhart

**Degrees Offered:** Master of Arts in Sociology, Master of Arts in Education (Sociology minor), Master of Arts in Education (Social Science Area major partially composed of sociology courses).

### **Master of Arts in Sociology**

This program aims toward the development of specific skills, especially those related to the quantitative research process, theory, micro-computing and report preparation. Completion of the M.A. in Sociology will prepare graduates for positions in public or private agencies and give thorough preparation for teaching and for advanced study at the doctoral level. The course of study includes training in general sociological theory, social research methods, statistics, micro-computing and technical writing. Additional academic training is provided in substantive areas as well as directed study.

A GPA of 3.0 (based on 4.0), or a GPA of 3.0 in the last sixty hours of undergraduate work, or a combined (verbal, quantitative, and analytical) score of 1250 on the Graduate Record Examination is required for admission. In addition, students entering this program must have completed eighteen undergraduate hours in sociology, usually including courses in theory, methods, and statistics, with an average of "B" or better. To apply for an assistantship an undergraduate grade point average of 3.2 (based on 4.0) or a composite score of 1350 on the Graduate Record Examination is desired. In circumstances where special competence has been developed through experiences other than traditional coursework or through extensive coursework in related disciplines, the departmental guidelines may be adjusted by approval of the department head in consultation with the department graduate committee.

Both Plan A (thesis) and Plan B (applied research/examination) are available. Students who anticipate doctoral study are encouraged to pursue Plan A. Under either plan, students must take the department's required core courses as follows:

- Soc 512 - Sociological Theory
- Soc 513 - Methods of Social Research
- Soc 514 - Sociological Statistics
- Soc 520 - Technical Writing in Sociology

Under the thesis option, Plan A, thirty hours are required -- 24 hours of coursework and 6 hours of thesis credit. Fifteen hours of 500-level coursework must be taken within the department. Up to twelve

hours may be taken at the 400G level. With the approval of the student's advisor and the department head, six hours may be taken in a related field. The oral examination and defense of thesis will serve as the final examination for students following Plan A.

Under the applied research/examination option, Plan B, thirty hours are required. Soc 515, Advanced Data Analysis, must be taken. Fifteen hours of 500-level coursework must be taken within the department. Up to twelve hours may be taken at the 400G-level. With the approval of the student's advisor and the department head, six hours may be taken in a related field.

There are two options under Plan B:

- (1) An applied research paper and an oral defense which will serve as a final examination; or
- (2) A written examination covering sociological theory and research methods and their application to selected substantive courses taken in the graduate program will serve as the final examination.

Beyond the 30 hour requirement under Plan A or Plan B, the student must demonstrate acquisition of an appropriate research tool. This requirement may be met by either: (1) passing a foreign language examination demonstrating reading proficiency in a foreign language appropriate to the major area, or (2) earning a grade of "B" or better in Soc 400G, Statistical Software for Social Scientists.

Courses on developing teaching/communication skills (Soc 500, 501) and affiliation with the Center for Teaching and Learning are available for students who want to become Teaching Associates with responsibility for teaching introductory courses for the department.

### **Master of Arts in Education (Social Science Area major; Sociology minor)**

This program provides graduate coursework in sociology for the public school teacher, and the student pursuing it must meet all requirements for the standard high school certificate. The student desiring an emphasis in sociology is advised to follow the Social Science Area major, which allows 9 to 12 hours in sociology and the remaining 6 to 9 hours in other social science departments. The student minoring in sociology may take a minimum of 12 hours or a maximum of 15 hours in sociology. In both cases the remaining hours are taken in professional education courses.

### **Graduate Courses in Sociology**

- 500 Seminar in the Teaching of Sociology. 2 hours.  
Workshop for students who plan to teach sociology.
- 501 Practicum in the Teaching of Sociology. 1 hour.

Seminar for students who are teaching sociology.

- 511 Advanced General Sociology.** 3 hours.  
Prerequisite: Six hours of Soc and consent of instructor.  
Examination of the various sub-disciplines of the field and the most important developments in each. Also includes recent research and theory in the various subfields.
- 512 Sociological Theory.** 3 hours.  
Prerequisite: Six hours of Soc and consent of instructor.  
Analysis of current sociological theories, including a survey of recent approaches to the construction and application of systematic theoretical models.
- 513 Methods of Social Research.** 3 hours.  
Prerequisite: Six hours of Soc and consent of instructor.  
Covers concept definition, model building, and research design appropriate to problem and data. Includes a review of representative research studies to acquaint the sociology major with advanced social research methodology, techniques, and procedures.
- 514 Advanced Social Statistics.** 3 hours.  
Prerequisite: Basic statistics at the undergraduate level or consent of instructor.  
Forms of statistical analysis commonly applied to sociological research data. Includes multiple and partial correlation and regression, one- and two-way analysis of variance, path and nonlinear function analysis, interaction effects, and introduction to factor analysis.
- 515 Advanced Data Analysis.** 3 hours.  
Prerequisites: Soc 400G, 513 & 514 or equivalent.  
Multivariate forms of statistical analyses commonly applied to quantitative sociological research data. Covers applications and extensions of the general linear model, including dummy variable regression, analysis of variance and covariance, etc.
- 520 Professional and Technical Writing.** 3 hours.  
Designed to assist students in writing theses, proposals, papers for publication, and some of the documents required of the sociologist in the industrial world.
- 531 Deviant Behavior.** 3 hours.  
Prerequisite: Six hours of Soc or consent of instructor.  
Types of deviant behavior with emphasis on criminality, delinquency, drug addiction, and alcoholism. Also covers current sociological theory and research in the field.
- 532 Criminology.** 3 hours.  
Prerequisite: Six hours of Soc or permission of instructor.  
Theories of crime causation and current research in the areas of criminology and corrections—methodological research considerations.
- 541 Demography.** 3 hours.  
Prerequisite: Six hours of Soc or permission of instructor.  
A review of the demographic processes such as mortality, fertility, and migration, with emphasis on measurements, methods, and analytical techniques.
- 542 Community.** 3 hours.  
Prerequisite: Six hours of Soc or consent of instructor.  
Ecological and social concepts of the community and its structure and function.
- 551 Sociology of the Family.** 3 hours.  
Prerequisite: Six hours of Soc or consent of instructor.

Analysis of the family institution; the impact of modern culture on the family.

- 552 Sociology of Economic Life.** 3 hours.  
Prerequisite: Six hours of Soc or consent of instructor.  
The meaning of work and its social import in contemporary society, the integration of sociological theories of work, and the procedures used in the sociological analysis of work.
- 561 Society, Personality, and Behavior.** 3 hours.  
Inter-personal relations in different situations and from various perspectives. Attitudes, norms, and values; crucial factors in motivation and the actor's definition of the situation.
- 562 Formal Organizations.** 3 hours.  
Prerequisite: Six hours of Soc or consent of instructor.  
The goals, internal structure, and environmental relations of large organizations. Emphasizes the emergence of bureaucracies, competing theoretical frameworks for viewing organizations, and the analysis of organization change.
- 571 Topical Seminar in Sociology.** 3 hours.  
Significant topics, issues, or developments in the discipline. May be repeated with a different topic.
- 595 Directed Study.** 1-3 hours.  
Prerequisite: Consent of the instructor and the department head. Individual research in a specific area of sociology in close cooperation with supervising faculty.
- 597 Research Practicum.** 3-6 hours.  
Prerequisites: Twenty-four graduate credit hours earned and the research tool successfully completed.  
Application of research skills in the community setting.
- 598 Internship in Sociology.** 3-6 hours.  
Prerequisites: Twenty-four graduate credit hours earned and the research tool successfully completed.  
Practical experience in a supervised work situation with a cooperating agency.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

**These 400-level courses may be taken for graduate credit:**

- 400G Statistical Software for Social Scientists.** 3 hours.  
Prerequisite: Soc 300 and 302 or permission of instructor.  
Use of micro and/or mainframe computers for statistical analysis of social science data. Emphasis is placed on programming skills in the Statistical Package for the Social Science (SPSS), micro or mainframe operating systems, and the use of software developed for data entry, analysis, and presentation.
- 402G Evaluation Research Techniques.** 3 hours.  
Prerequisite: Soc 300 and 302 or their equivalent and permission of instructor.  
Procedures and problems in conducting research to evaluate programmatic effects.
- 408G Survey Applications.** 3 hours.  
Prerequisite: Soc 300 and 302 or their equivalent and permission of instructor.

Student involvement in the design, conduct, analysis, and dissemination of an actual social survey research project.

- 410G Socialization: Changes Through Life.** 3 hours.  
Theories and research techniques in socialization; findings that deal with changes over the life cycle.
- 415G Sociology of Language.** 3 hours.  
Intensive examination of forms and functions of language from sociological perspective.
- 420G Political Sociology.** 3 hours.  
Prerequisite: Nine hours of Soc or consent of instructor. Political behavior within a sociological perspective. Includes social cohesion, legitimacy, political socialization, and power structures.
- 422G Sociology of Work and Leisure.** 3 hours.  
Prerequisite: Graduate standing.  
Major types of work, workers, and work settings in the U.S. and the patterns of leisure activity associated with them.
- 430G Penology.** 3 hours.  
Prerequisite: Soc 330 or consent of instructor. Development of punishment and correctional programs, with emphasis on sociological considerations. Prison field trips required.
- 432G Sociology of Criminal Law.** 3 hours.  
Sociological research and theory focusing on social structural factors affecting the creation of criminal codes, the enforcement of criminal law, and the imposition of penal sanctions.
- 433G Community Corrections.** 3 hours.  
Prerequisite: Soc 330, its equivalent or permission of instructor. Socio-legal analysis of community based treatment of criminal offenders including forms of diversion, probation, and parole; the techniques of sentencing, the supervision of clients, and a program evaluation.
- 435G Family Violence.** 3 hours.  
Prerequisite: six hours of sociology. This course is designed to provide the student with a sociological perspective on family violence in the United States. Emphasis is placed on child abuse and wife abuse. Research, theory, laws, treatment and prevention are analyzed.
- 440G Medical Sociology.** 3 hours.  
Comprehensive examination of the social organization of the health care industry in the U.S. Focus on origins and development of medicine, social epidemiology, the social construction of illness and illness behavior, the professionalization of medicine and patterns of social interaction between health providers and patients.
- 450G Occupations and Professions.** 3 hours.  
Prerequisite: 346 or consent of instructor. Occupation specialization and the nature of occupational organization. Examines a variety of occupations and professions to determine the place of work in the lives of their members.
- 452G Social Change.** 3 hours.  
Prerequisite: Nine hours of Soc or permission of instructor. Nature and theories of social change and the factors affecting it. Emphasis on modernization and institutional

changes in contemporary societies.

- 460G Urban Sociology.** 3 hours.  
Prerequisite: Six hours of Soc or consent of instructor. The impact of city life on social actions, social relationships, the social institutions. Emphasis on the rise and significance of cities in American life.

**The following 400-level course may be taken for graduate level in Anthropology:**

- 402G Qualitative Methods.** 3 hours.  
A "hands on" practicum in field research providing students with working knowledge of the strategies, techniques, and ethical considerations of collecting and using research data.

## DEPARTMENT OF THEATRE AND DANCE

**IVAN WILSON CENTER  
ROOM 114 (502) 745-5845**

**William E. Leonard, Head**

**Degree Offered:** Master of Arts in Education (Theatre minor)

The department also offers courses used as electives in other programs such as the M.A. in English and the M.A. in Communications.

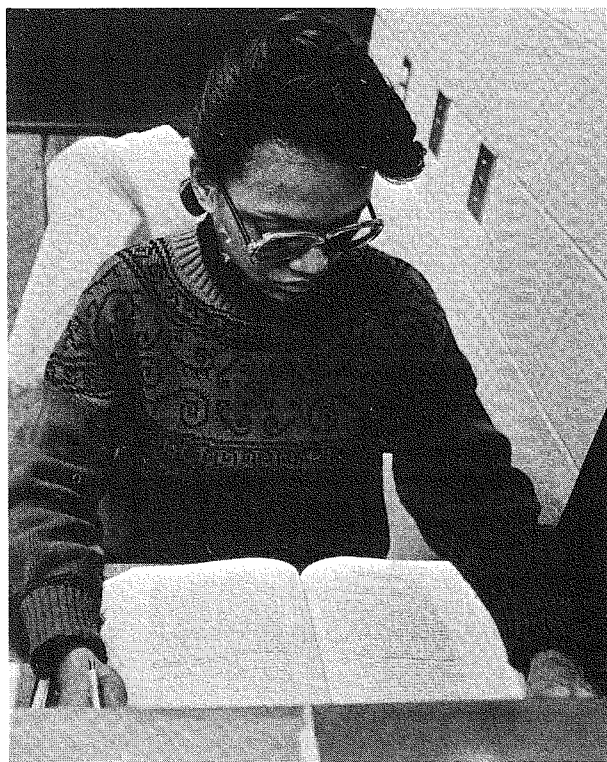
### Graduate Courses in Theatre

- 550 Seminar in Theatre.** 3 hours.  
Provides theatre experience through research and application. Individual investigation of interpretative, technical, or promotional problems.
- 553 Restoration and Eighteenth Century Drama.** 3 hours.  
Representative plays, evaluation of influences, movements, and productions. Reading and individual study.
- 583 Shakespeare II.** 3 hours.  
(See English 583)

**The following 400-level Theatre courses may be taken for graduate credit:**

- 422G Lighting Design.** 3 hours.  
Lighting equipment demonstration and practical experience in working with lights for the major productions. Each student will design the lighting for a full-length play.
- 423G Theatre Management.** 3 hours.  
Principles of management applied to fields of theatre operation, production preparation, and performance.

- 424G Special Problems in Technical Theatre.** 3 hours.  
Advanced study in the areas of scenery, costume, lighting, and sound.
- 431G Musical Theatre.** 3 hours.  
Development of the musical theatre; the style and form of its music, dance and drama; and its impact on the modern theatre.
- 441G Costume Design.** 3 hours.  
For theatre majors and those interested in understanding the concept of costuming. Emphasis on the historical and practical aspects of theatrical costume design.
- 442G Historic Decor for Stage.** 3 hours.  
Historic costumes of the major periods of theatrical production. Covers the costumed actor's problems with manners and movements.
- 445G Research in Theatre and Dance.** 3 hours.  
Independent study directed by theatre / dance faculty advisor.
- 455G American Drama.** 3 hours.  
Development of American drama from the colonial period to the present. An overview of American drama and the works of major American playwrights of the past forty years.
- 456G Elizabethan Drama.** 3 hours.  
Intensive study of the immediate predecessors and contemporaries of Shakespeare.
- 459G Modern Drama.** 3 hours.  
Dramatic literature since Ibsen, with emphasis on evolving developments and trends in world theatre.
- 461G Theatre Practicum.** 3 hours.  
Reading of plays and dramatic materials; staging methods; script selection for production, script with analysis of director's research; individual interpretation and production plans; final production.
- 482G Shakespeare I.** 3 hours.  
See Department of English.
- 491G Puppet Theatre.** 3 hours.  
Puppets, muppets and marionettes with emphasis on history, construction, operation, and performance.
- 499G Studies in British Theatre.** 3 hours.  
Includes a tour to England and viewing of representational plays, visits to historical and cultural sites.





## **COLLEGE OF BUSINESS ADMINISTRATION**

**J. Michael Brown, Dean**

### **DEPARTMENTS**

**Accounting**

**Economics**

**Finance and Computer Information Systems**

**Management**

**Marketing**

### **DEGREES OFFERED**

**Master of Arts in Economics**

**Master of Arts in Education  
Economics Major or Minor**

**Master of Professional Accountancy**



**DEPARTMENT OF ACCOUNTING  
GRISE HALL**

**Jack Hall, Head**

**Graduate Faculty**

**Professors:** J. Hall, R. Hansen, C. Hays, J. Philhours

**Associate Professor:** C. Aldridge

**Assistant Professors:** N. Magner, D. Smith, S. White

**Degree Offered: Master of Professional Accountancy**

The Master of Professional Accountancy is an advanced program of study designed to enhance the candidate's undergraduate background and to support entry into various fields of professional accountancy. The program contains instruction in communication skills, problem solving, and general knowledge to support technical accounting courses relevant to the economic climate of global business.

When coupled with the traditional baccalaureate degree, the MPA program fulfills the 150 semester hour education requirement for:

- \* admission to sit for the Certified Public Accountants examination in the various states requiring the 150 hours of education (including Kentucky and Tennessee)
- \* admission to membership in the American Institute of Certified Public Accountants (year 2000)
- \* admission to various state societies of CPAs

The program consists of graduate level accounting and other courses in communications, ethics, economics, world culture, government and/or other areas of arts and sciences. The program is designed primarily for full-time students who possess a baccalaureate degree with a major in accounting. If these individuals meet the American Assembly of Collegiate Schools of Business core curriculum, they may complete the program with a minimum of 30 semester hours, including 15 hours of graduate accounting courses plus 15 hours of other graduate courses approved by the Graduate Accounting Studies Director. (Persons without these credentials will require more hours, dependent on their background.) Individuals may be admitted to the program on a part-time basis, if they

demonstrate a strong commitment to continuous enrollment and timely completion of the degree.

**Admission Requirements:**

- a. completion of graduate application form.
- b. three letters of reference commenting specifically on the applicant's ability to do graduate work.
- c. official GMAT grade report with an acceptable minimum score.
- d. official transcripts of all college work attempted.
- e. official TOEFL score (if a foreign applicant)

Selection for admission is based on evaluation of the previously-listed criteria. Unusual circumstances will be noted to determine exceptions, if any, to the general requirements.

**Program Content**

Normally, a full-time candidate may complete the 30 hour program in two semesters and one summer session. Accounting courses are cycled to permit such completion.

**Accounting courses (3 hours each)**

ACCT 500	Advanced Financial Accounting Theory and Practice
ACCT 510	Advanced Accounting Information Systems and Controls
ACCT 520	Seminar in Advanced Managerial Accounting*
ACCT 530	Seminar in Tax Research and Planning
ACCT 540	Advanced Auditing Standards and Applications
ACCT 550	Seminar in Accounting for Nonprofit Organizations*

\* Select One

Nonaccounting Courses: 15 hours (e.g., economics, social sciences, humanities)

Note: Not more than 6 of the 30 semester hours may be selected from 400G courses.

A comprehensive examination is required over the major area at the end of the program.

## Graduate Courses in Accounting

- 500 Advanced Financial Accounting Theory and Practice.** 3 hours.  
Prerequisites: ACCT 402 or its equivalent.  
Study of development of financial accounting theory and external financial reporting, including a critical appraisal of trends in its application. Emphasis placed on analysis of contemporary reporting problems.
- 510 Advanced Accounting Information Systems and Control.** 3 hours.  
Prerequisites: ACCT 300 and ACCT 310 or its equivalent.  
Applications of general systems theory including systems analysis and design, development, implementation and control as well as evaluations of hardware and software.
- 520 Seminar in Advanced Managerial Accounting.** 3 hours.  
Prerequisites: ACCT 310 or equivalent.  
To expose the student to a wide range of managerial accounting concepts and practices. Particular attention paid to use of managerial accounting concepts by management in planning, performance evaluation, and decision making.
- 530 Seminar in Tax Research and Planning.** 3 hours.  
Prerequisites: ACCT 430 or equivalent.  
Introduction to statutory, administrative, and judicial sources of tax law. Tax research required.
- 540 Advanced Auditing Standards and Applications.** 3 hours.  
Prerequisites: ACCT 450 or equivalent.  
Philosophy and development of auditing; balancing audit efficiency and risk assessment through statistical sampling and analytical review methods; a critical appraisal of the ethical and legal environment of auditing; and organizing and managing the audit firm under differing management styles.
- 550 Seminar in Accounting for Nonprofit Organizations.** 3 hours.  
Prerequisites: Admission to MPA program.  
Examines accounting concepts and techniques which aid nonprofit organizations in financial reporting, planning, and control.

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## DEPARTMENT OF ECONOMICS

**GRISE HALL  
ROOM 431 (502) 745-2249**

**John C. Wassom, Head**

## Graduate Faculty

**Professors:** M. Borland, J. Ramsey, R. Howsen, Y. Kim, R. Pulsinelli, J. Wassom, T. Wisley

**Associate Professors:** W. Davis, B. Goff, D. Myers, C. Roberts

**Assistant Professors:** T. Noser, M. Valinezhad

**Degrees Offered:** Master of Arts in Economics, Master of Arts in Education (Economics major or minor)

### Master of Arts in Economics

The program of study is designed to prepare students for careers in teaching, business, and government. All students are required to complete a three course core (advanced microeconomics, advanced macroeconomics, and a quantitative methods course). The remainder of the program is flexible -- up to 12 hours may be taken, with approval, outside the department.

In addition to meeting Graduate Studies requirements, the applicant is expected to have completed six hours of intermediate economic theory and three hours of elementary statistics or their equivalent and possess an appropriate background in mathematics. Deficiencies in undergraduate preparation may be removed by successful completion of the appropriate requirements during the first semester/s/ after admission.

The program consists of 24 hours with a thesis or 30 hours without a thesis. A research tool requirement for graduate study must also be fulfilled. This involves an additional course. Thus, a total of 33 hours of course work is required for the degree. No more than 12 hours of 400-level courses may be taken. A final written or oral examination covering major areas of study and/or the thesis is required.

The program includes the following study areas: Pre-Ph.D., Business Economics, Financial Economics, Public Policy, and International Economics.

### Master of Arts in Education (Economics major or minor)

This program provides graduate work in economics within the program designed for the public school teacher. The student following it must meet all requirements for standard high school certification. The major requires 18 to 21 hours in economics. The minor requires 12 to 15 hours in economics. The remaining hours of coursework will be taken in professional education.

### Graduate Courses in Economics

- 504 Survey of Economic Theory.** 3 hours.  
Theoretical principles of micro and macro-economic analysis. Covers price, output decisions, resource allocation in a market economy, aggregate income, price level, etc.
- 505W Economics for Teachers.** 3 hours.  
Basic concepts and topics dealing with the functioning of a market oriented economic system and the U.S. economy.
- 506 Statistical Research Methods.** 3 hours.  
Introduction to applied statistics for decision making including analysis of variance, process control, experimental design, regression, and forecasting, as well as related tools such as computer software and data sources.
- 580 Applied Microeconomic Theory.** 3 hours.  
Prerequisites: ECON 504 and 506 or equivalents.  
Advanced theory and its application in the business environment. Emphasis on behavior of and decision making within the firm, demand resource allocation, and decision-making techniques.
- 581 Survey of Public Financial Theory.** 3 hours.  
Theoretical aspects of government finance and its influence on public and private decision making.
- 582 Seminar in Economic History.** 3 hours.  
Topics and research in American and European economic history.
- 583 Advanced Microeconomic Theory.** 3 hours.  
Topics in theory of consumer behavior, prices, markets, production, distribution, and welfare.
- 584 Advanced Macroeconomic Theory.** 3 hours  
Topics in the theory of consumption, saving, investment, interest, money, and employment.
- 585 Applied Macroeconomic Theory.** 3 hours.  
Prerequisites: ECON 504 and 506 or equivalents.  
Its application to the business environment. Emphasis on the dynamic character of the American economy and applied techniques of business conditions forecasting.
- 586 Monetary Theory.** 3 hours.  
Classical, neoclassical Keynesian, and modern quantity theory of money and monetary policy.
- 587 Land Economics.** 3 hours.  
Topics in land use, values, and natural resources.
- 588 Public Sector Economics.** 3 hours.  
Problems in government finance, budgeting, fiscal relations, and revenue sharing. Primarily for Master of Public Service students.
- 589 Seminar in Economic Theory.** 3 hours.  
Intensive study of selected topics in theory.
- 590 Economic Development.** 3 hours.  
Development of problems of the less progressive countries.
- 591 Advanced International Economics.** 3 hours.  
Trade theory, tariffs, balance of payments, and capital transfers.
- 592 Economic Research and Report Writing.** 3 hours.

Techniques of data collection, research, and writing on selected topics.

- 594 Forecasting.** 3 hours.  
Prerequisites: Math 116, ECON 504, 506, or equivalent.  
Numerical characteristics of U.S. economy and other economic units; methods of forecasting changes; application and evaluation of different techniques.
- 595 Labor and Human Resource Economics.** 3 hours.  
Study of static and dynamic models of labor demand, supply, and human capital investment.
- 598 Directed Studies.** 3 hours.  
Selected topics in economics.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

**The following 400-level courses may be taken for graduate credit:**

- 410G Seminar in Economics.** 1 to 3 hours.  
Special topics in economics of current interest.
- 420G Public Finance.** 3 hours.  
A study of the economics of government spending and taxation. Among topics covered are: government's role in promoting widely accepted economic policy objectives; budgeting and benefit/cost analysis; effects and incidence of major taxes used in the U.S.; and issues in fiscal-federalism.
- 430G Environmental and Resource Economics.** 3 hours.  
Prerequisites: ECON 150, 202, 203 or permission of instructor.  
Study of environmental issues and natural resource problems and alternative solutions to them. Topics include measurements of environmental benefits, property rights and externalities, environmental quality, pollution control and solid waste management, etc.
- 434G The Economics of Poverty and Discrimination.** 3 hours.  
Prerequisites: ECON 150, 202, 203 or permission of instructor.  
Study of the economic nature, origins, and public policy aimed at addressing poverty and discrimination in the economy. Topics include: social security, food stamps, equal employment opportunity legislation, etc.
- 440G American Industry: Structure, Performance, and Policy.** 3 hours.  
Prerequisites: ECON 202, 203, and 206.  
A course in applied price theory in which the structure, behavior and performance of American industry is evaluated in the light of public and private social goals. Public policy toward the promotion of competition and the control of monopoly will be examined.
- 450G Central Banking Theory and Monetary Policy.** 3 hours.  
Prerequisites: ECON 300 and 303.  
A course in applied monetary theory and policy. Emphasis is placed on the results of modern research and empirical findings.
- 464G Introduction to Mathematical Economics.** 3 hours.  
Prerequisites: ECON 302 and 303.  
The application of mathematics to economic analysis,

covering algebraic and functional relationships, differential and integral calculus, differential and difference equations, matrix algebra, linear programming and game theory.

**465G Regression and Econometric Analysis.** 3 hours.  
Prerequisites: ECON 306 or consent of instructor.  
Presents the use of statistical methods in measuring and testing economic relationships. Emphasizes the use of ordinary least squares in estimating single equation models. Topics included are dummy variables, lagged variables and such problems as autocorrelation, heteroscedasticity, multicollinearity and identification.

**470G Economic Growth and Development.** 3 hours.  
Prerequisites: ECON 302 or 414.  
Introduction to the study of the development process, especially in the less developed countries. Course considers the basic problems and issues of economic development, economic models used to analyze the development process and planning for development.

**475G Urban and Regional Economics.** 3 hours.  
Prerequisites: ECON 202, 203 and 206 or consent of instructor.  
Considers the fundamental economic relationships within and between economic and political units in the United States. Emphasis is on applied economic analysis dealing with the characteristics of a region, the urban center and employment.

**491G History of Economic Thought.** 3 hours.  
Prerequisite: ECON 202 and 203 or consent of instructor.  
The origin and development of economic thought with emphasis on the contribution of political economy to the behavioral sciences.

**496G International Monetary Economics.** 3 hours.  
Prerequisite: ECON 380.  
Deals in a systematic fashion with the monetary aspects of international trade and finance.

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## DEPARTMENT OF FINANCE AND COMPUTER INFORMATION SYSTEMS

GRISE HALL  
ROOM 333 (502) 745-5283

Robert W. Bretz, Head

Graduate Faculty

Professor: J. Stallard

Assistant Professor: S. Thapa

Graduate Courses in Finance

**509 Managerial Finance.** 3 hours.  
Nature and scope; topics in financial structure and the cost of capital.

**530 Advanced Managerial Finance.** 3 hours.  
Prerequisite: Fin 509 or equivalent.  
Financing policies of corporate entities with emphasis on planning the capital structure, measuring and controlling costs of alternate sources of funds, dividend policy, and capital budgeting.

The following 400-level courses may be taken for graduate credit:

**437G Corporate Asset Management.** 3 hours.

**438G Corporate Funds Management.** 3 hours.

## Graduate Course in Computer Information Systems

**516 Business Computer Applications.** 3 hours.  
Introduction to electronic information processing. Overview of systems analysis and design, management information systems; introduction to computer programming languages and micro-computer applications.

The following 400-level course may be taken for graduate credit:

**461G Business Research Report Writing.** 3 hours.

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## DEPARTMENT OF MANAGEMENT

GRISE HALL  
ROOM 200 (502) 745-5408

Rex Galloway, Head

Graduate Faculty

Associate Professor: S. Renas

## Graduate Courses in Management

**513 Management Dynamics.** 3 hours.  
An introduction to organizational analysis and to the understanding and management of behavior in organizations.

**518 Management Science.** 3 hours.  
Prerequisites: Math 116, and ECON 206 or equivalents.  
Quantitative techniques as an aid to decision making. Decision theory, linear programming, queuing theory, and probabilistic models.

**519 Production Management.** 3 hours.  
Prerequisites: INFS 516, MGT 518, and ECON 506 or equivalents.

Operations management planning and control in manufacturing and non-manufacturing systems.

**535 Advanced Management Science. 3 hours.**

Prerequisite: MGT 519

Quantitative and computer-based techniques used as aids to managerial decision making. Emphasizes mathematical programming methods, stochastic models, and simulation.

**570 Business, Government, and Law. 3 hours.**

Development, implementation, and impact of major public policies toward business. Includes antitrust, consumer protection, conservation and environmental control, etc.

**573 International Business. 3 hours.**

Prerequisites: Mkt 520, and Fin 530 or equivalents.

Institutions, organizations, and procedures of international business. Emphasizes problems and decision-making techniques.

**575 Organization Theory. 3 hours.**

Prerequisite: Mgt 513 or the equivalent.

Contemporary theory and research on organizational structure and design that has relevance for practical problems of designing and managing organizations.

**578 Administrative Policy and Strategy. 3 hours.**

Prerequisites: At least 21 hours earned including Acct 560, Fin 530, Mgt 575, Mkt 520, and MGT 519.

A capstone course focusing on the formulation and implementation of corporate and business strategy.

**579 Directed Study in Management. 1 to 3 hours.**

Supervised independent study of a topic or problem culminating in a scholarly paper or problem-solving report.

**511 Managerial Marketing. 3 hours.**

Concepts, terms, and functions important to marketing, consumer behavior, product planning, pricing, and public policy implications of marketing strategies.

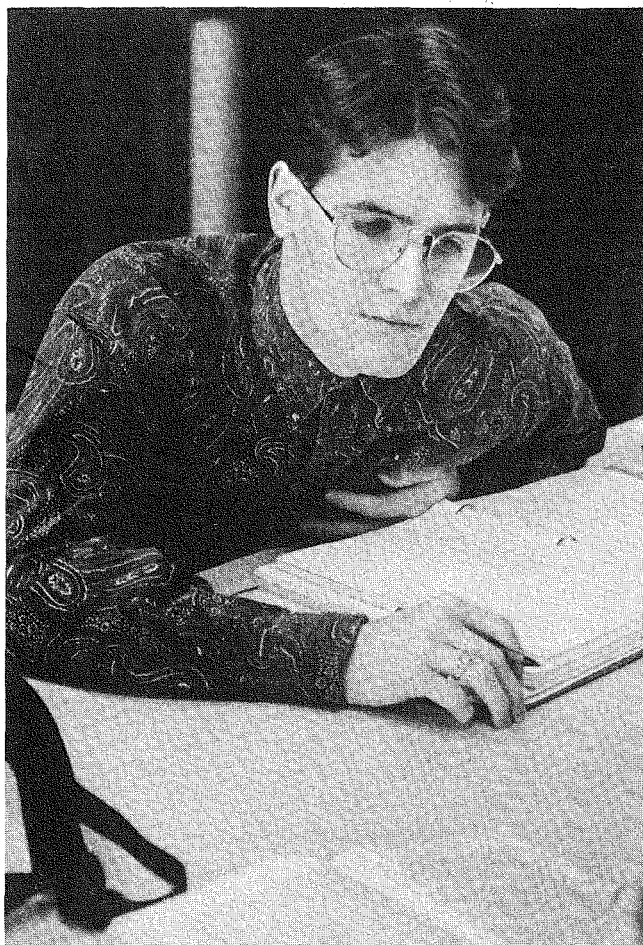
**520 Advanced Marketing. 3 hours.**

Prerequisite: Mkt 511 or the equivalent.

Marketing principles, policies, and operations; quantitative and behavioral sciences as related to the theory, philosophy, and operation of integrated marketing systems.

**529 Directed Study in Marketing. 1 to 3 hours.**

Supervised independent study of a topic or problem culminating in a scholarly paper or problem solving report.



The following 400-level course may be taken for graduate credit:

**425G Managing the Quality Process. 3 hours.**

Prerequisite: MGT 314 or permission of instructor.

Review basic statistics, control charts, process capability, conformance, power and OC curves, tolerance intervals, implementation strategies, Deming philosophy.

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**DEPARTMENT OF MARKETING**

**GRISE HALL**

**ROOM 500 (502) 745-2471**

**Jerry Gottlieb, Head**

**Graduate Faculty**

**Professor: D. Fugate, R. Milliman**

**Graduate Courses in Marketing**



**COLLEGE OF EDUCATION AND  
BEHAVIORAL SCIENCES**

**Carl Martray, Dean**

**DEPARTMENTS**

**Educational Leadership**

**Home Economics and Family Living**

**Physical Education and Recreation**

**Psychology**

**Teacher Education**

**DEGREES OFFERED**

**Master of Arts in Education**

**Master of Arts (Psychology)**

**Master of Science (Communication Disorders,  
Library Science, Physical Education, Recreation)**

**Specialist in Education**

**JOINT DOCTORAL PROGRAM  
(With the University of Kentucky)**

**Doctor of Education**

**Doctor of Philosophy**

**NON-DEGREE PROGRAMS**

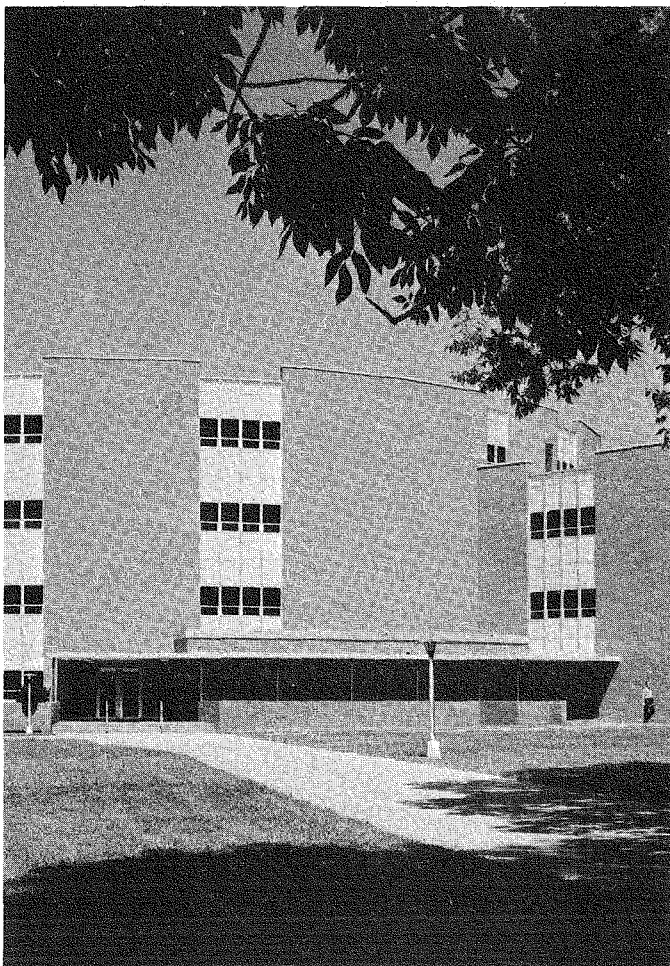
**Rank II—Planned Fifth-year**

**Rank I—Teacher**

**Rank I—School Administration**

**Rank I—Guidance**

**Vocational Administrator Certification Program**



## DEPARTMENT OF EDUCATIONAL LEADERSHIP

**TATE C. PAGE HALL**  
**ROOM 426 (502) 745-4997**

**Stephen B. Schnacke, Head**

### Graduate Faculty

**Professors:** R. Adams, D. Cline, R. Greer, D. Hayden, T. Meredith, S. Schnacke, V. Sheeley, F. Stickle, W. Traugott, J. Wilder

**Associate Professors:** D. Dinkmeyer, R. Prickett, C. Wagner

**Assistant Professors:** S. DeVaney, J. Heck, A. Hughey, S. James, D. Smith, D. Wallman, J. Wang, E. Williams

**Degrees Offered:** Master of Arts in Education (General, School Counseling, Student Affairs in Higher Education, Mental Health Counseling, Specialist in Education (Counseling, School Administration)).

Additional program specialization areas are available in elementary school administration, secondary school administration, pupil personnel administration, supervision of instruction, general school administration (superintendent), and administration/supervision of vocational education.

The Department of Educational Leadership offers programs designed to prepare school personnel for effective leadership in the elementary and secondary schools. The department also offers programs of preparation for school and professional personnel in the areas of guidance, counseling, mental health counseling, marriage and family counseling, and personnel services. The curricula meet professional certification standards in school administration, school counseling and school supervision. The department also provides educational foundations courses that give professional educators a greater understanding of their roles and the function of educational institutions in society.

Some counseling courses may require learning which focuses on self-understanding and self-disclosure.

### Master of Arts in Education (General)

This degree program is provided for individuals whose professional interest suggests an emphasis in the behavioral sciences and/or education; flexibility of

the program allows students to meet expected career needs.

Students must meet requirements for admission to graduate studies and applicable departmental requirements.

A minimum of 30 semester hours of graduate level coursework is required for the non-thesis option; 24 hours of coursework is required for the thesis option. A final comprehensive examination must be satisfactorily completed.

The education major (15-21 hours) must include Ed Fnd 500--Research Methods, and three hours selected from Ed Fnd 576, Ed Fnd 577, Psy 510, or Psy 511. The remaining courses (9-15 hours) may be selected, in consultation with the advisor, from adult and community education, higher education, vocational education, and/or other areas of education.

The distributed subject matter minor courses (9-15 hours) may be selected from one or more academic departments. These courses must be approved by a representative from the academic department(s) involved.

Within the MAE (General), programs may be planned to include an emphasis in adult development and gerontology. Those requirements are as follows:

#### Core 6 hours:

Ed Fnd 500 (required) and one additional course to be selected from Ed Fnd 576/577, or Psy 510/511.

#### Education 9-15 hours:

Cns 669  
 Ed 599 (Plan A, thesis) 6 hours or Cns 662 (Plan B, non-thesis) 3-6 hours  
 Exc Ed 489G  
 Other appropriate education courses

#### Subject area 9-15 hours:

Psy 423G, HEFL 585, Rec 570, HL Sft 443G, 444G  
 Other appropriate subject area courses

### Master of Arts in Education (School Counseling)

This 36 hour program leads to the master's degree and provisional certification for school counselors. Applicants must meet graduate studies requirements for admission and must gain admission to the counseling unit.

If a classroom teacher does not intend to become a school counselor but plans to remain in the classroom during the entirety of the teaching career, a Master's Degree in Education which emphasizes teaching subject matter should be considered. Classroom teachers who definitely plan to become certified in School Administration may wish to consider

a Master's Degree in Elementary or Secondary Education. The school counseling program is intended for the educator who plans to enter the field of school counseling.

**A. Professional Education: 6 hours**

Ed. Fnd 500 -- Research Methods required  
Choose one additional foundations course from:  
Ed Fnd 577, Ed Fnd 576, Sec Ed 580\*, El Ed 503\*\*, Psy 510, or Psy 511.

\*Secondary \*\*Elementary

**B. The student will take the following counseling courses in his/her area:**

**1. Elementary School Counselor (grades K-8):**  
24 hours:

Cns 550--Prof. Orient. in Counseling  
Cns 551--Classroom Guidance  
Cns 552--Testing and Assessment  
Cns 554--Group Counseling  
Cns 558--Counseling Theories  
Cns 561--Counseling Children  
Cns 565--El. Guidance Service  
Cns 590--Practicum\* (practicum experience must be in elementary grades K-8)

**2. Secondary School Counselor (grades 5-12):**  
24 hours:

Cns 550--Prof. Orient. in Counseling  
Cns 551--Classroom Guidance  
Cns 552--Testing and Assessment  
Cns 554--Group Counseling  
Cns 558--Counseling Theories  
Cns 562--Counseling Adolescents  
Cns 566--Sec. Guidance Service  
Cns 590--Practicum\* (practicum experience must be in secondary level grades 5-12)

\*To enroll in practicum the student must have completed the following prerequisites: Fifteen hours in counseling courses including the following courses: 550, 554 and 558.

**C. Subject Matter Coursework: 6 hours**

Six hours of advisor-approved, graduate level, subject related courses.

**Master of Arts in Education (Student Affairs in Higher Education)**

Applicants to this 48 hour program must meet graduate requirements for admission.

Course requirements are as follows:

**A. General Professional Requirements (15 hours):**  
Ed Fnd 500--Research Methods

Cns 550--Prof. Orient. in Counseling  
Cns 556--Career Counseling  
Cns 555--Social and Cultural Diversity  
Cns 558--Counseling Theories

**B. Student Affairs Major (27 hours):**  
Cns 571--Intro. to Student Affairs  
Cns 572--Am. College Student  
Cns 573--Leadership in Student Affairs  
Cns 574--Student Development  
Cns 575--Adm. of Student Affairs  
Cns 576--Techn. in Student Affairs  
Cns 590--Practicum  
Cns 595--Internship (6 hours)

**C. Electives (6 hours) selected from the following:**  
Cns 656; Psy 423G; Psy 520; Psy 522; Psy 551; Psy 572; or other courses approved by advisor.

**Master of Arts in Education (Mental Health Counselor Program)**

Applicants to this 48-hour program must meet graduate requirements for admission and must gain admission to the counseling unit. Course requirements are:

**A. Ed Fnd 500--Research**  
Cns 550--Prof. Orient. in Counseling  
Cns 552--Testing Assessment  
Cns 554--Group Counseling  
Cns 557--Human & Family Development  
Cns 558--Theories of Counseling  
Cns 567--Mental Health Counseling  
Cns 590--Practicum  
Cns 595--Internship (6 hours)  
One of the following: Psy 440G; Psy 511; Psy 520; Psy 450G; or Psy 640, or other psychology courses approved by advisor.

**B. Choose one of the two options:**

**Option I - Community Counseling:**  
Cns 555--Social and Cultural Diversity  
Cns 556--Career Counseling  
Cns 559--Techniques  
Electives--6 hours

**Option II - Marriage and Family Counseling:**  
Cns 580--Family Life Studies  
Cns 582--Human Sexuality in Counseling  
Cns 584--Counseling Violent and Dysfunctional Families  
Cns 586--Parenting Issues  
Cns 588--Family Systems Counseling

**Specialist in Education (Counseling major)**

Applicants desiring to pursue this program must meet graduate requirements for admission and must also be admitted to the department. A personal interview is required for reviewing professional and educational background and other pertinent data. A departmental admissions committee will review the information and make final recommendations regarding the applicant's eligibility. This degree requires a minimum of 30 semester hours of graduate coursework beyond the master's degree. Specific courses and field experiences are provided to meet individual needs. Coursework is generally taken from three areas:

Foundations Core--education and research, 6 hours.  
Major Emphasis--counseling 15-18 hours.  
Cognate--psychology, sociology, and/or related areas, 6-12 hours.

The student's committee directs the coursework and required research project and administers a final oral examination.

### Graduate Courses in Counseling

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| <p><b>550 Professional Orientation in Counseling.</b> 3 hours.<br/>The professional roles, functions, goals, and objectives of the counselor. Professional organizations, associations, history and trends. Ethical and legal standard, preparation standards and credentialing.</p> <p><b>551 Classroom Guidance.</b> 3 hours.<br/>Basic guidance concepts such as encouragement, communication, self concept, discipline, and understanding students within the classroom setting will be presented with practical approaches in working with students.</p> <p><b>552 Testing and Assessment in Counseling.</b> 3 hours.<br/>Methods, techniques, statistics, and instruments used in assessing and evaluating individuals, couples, families, and groups; administering, scoring and interpreting both objective and subjective instruments used in counseling. Survey of research design and statistics. Computer utilization in counseling and use of data in decision-making.</p> <p><b>553 Community Resources in Guidance and Counseling.</b> 3 hours.<br/>Surveys social agencies, both public and private, with which counselors and those in the helping field should be familiar. An analysis of the referral process and the utilization of these resources with the clientele with which one works.</p> <p><b>554 Group Counseling.</b> 3 hours.<br/>Dynamics of group development. Group counseling theories, leadership styles, group counseling methods and skills. Interpersonal and relationships in the family system and other small group settings. (limited class size)</p> <p><b>555 Social and Cultural Diversity in Counseling.</b> 3 hours.<br/>Multicultural characteristics and methods of conflict resolution; counseling and educational methods for alleviating discrimination and societal concerns such as</p> | <p>stress, person abuse and substance abuse in the school and counselor setting. Traditional and nontraditional male/female roles; methods of conflict resolution in response to changes in society. Issues of counseling and teaching.</p> <p><b>556 Career Counseling.</b> 3 hours.<br/>Career development theories; occupational and educational information sources; career and leisure counseling; life style and career decision making; career development program planning and resources.</p> <p><b>557 Human and Family Development in Counseling.</b> 3 hours.<br/>Understanding of the nature and needs of normal and abnormal individuals in the family system at all developmental levels emphasizing moral, intellectual and ethical development. Counseling strategies in the complex developmental relationships among individuals in the family system. Counseling in the life cycle of the family.</p> <p><b>558 Counseling Theories.</b> 3 hours.<br/>Philosophic bases of the helping processes; major contemporary counseling theories and their application in individual and group counseling and in family systems counseling.</p> <p><b>559 Techniques of Counseling.</b> 3 hours.<br/>Prerequisite: Cns 558.<br/>Focus on the development of basic and advanced counseling skills and procedures. Refinement of the skills needed in providing counseling intervention.</p> <p><b>561 Counseling Children.</b> 3 hours.<br/>Theories and techniques of developmental counseling with children.</p> <p><b>562 Counseling Adolescents.</b> 3 hours.<br/>Theories and techniques of developmental counseling with the teenage population.</p> <p><b>563 Counseling Adults.</b> 3 hours.<br/>Developmental issues of adulthood. An integration of personal, social, and career counseling with the adult population.</p> <p><b>564 Counseling the Elderly.</b> 3 hours.<br/>Major problems individuals experience relative to or as a consequence of growing older. Basic communication and counseling skills needed to work with the elderly.</p> <p><b>565 Elementary Guidance Services.</b> 3 hours.<br/>The organization, administration, and delivery of guidance and career services in the elementary school.</p> <p><b>566 Secondary Guidance Services.</b> 3 hours.<br/>The organization, administration, and delivery of guidance and career services in the secondary school.</p> <p><b>567 Mental Health Counseling.</b> 3 hours.<br/>Prerequisite: Cns 558.<br/>The identification, treatment plans and referral procedures for emotional concerns in the mental health field.</p> <p><b>570W Workshop in Counseling.</b> 3 hours.<br/>Workshop dealing with special problems of current topics in counseling. (May be repeated with a different topic for a maximum of 6 hours.)</p> <p><b>571 Introduction to Student Affairs in Higher Education.</b> 3</p> |
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hours.

History, philosophy, and development of student services. Includes testing and counseling, financial aids, housing, admissions and records, placement, etc.

**572 American College Student. 3 hours.**

Characteristics and attitudes of contemporary "traditional" and "non-traditional" college students will be examined. Major topics will include the impact of college environments on students, needs analysis and outcomes assessment, current issues and concerns, and implications for Student Affairs professionals.

**573 Leadership in Student Affairs. 3 hours.**

Prerequisite: Completion of Cns 571 or concurrent enrollment in Cns 571.

The essentials of effective leadership in Student Affairs will be examined. Major topics will include organizational and leadership theory, planning and decision-making strategies, conflict resolution, managing change, and the use of groups and group dynamics within a Student Affairs context.

**574 Student Development in Higher Education. 3 hours.**

Prerequisite: Completion of Cns 571 or concurrent enrollment in Cns 571.

This course will examine the developmental processes that impact college students. Major topics will include a discussion of various theoretical models, sociocultural foundations, developmental program designs, and assessment techniques and implications.

**575 Administration of Student Affairs. 3 hours.**

Prerequisite: 6 hours in Student Affairs including Cns 571. The essentials of sound administrative management in Student Affairs will be discussed. Major topics will include policy development, legal considerations, personnel selection, supervision, training and evaluation, collective bargaining, budgeting and financial concerns, governmental policy implications, and information management systems.

**576 Technology in Student Affairs. 3 hours.**

The uses of technology, for forecasting, budgeting, program planning, communication, policy analysis and resources allocation in Student Affairs will be explored. Automated information systems will be discussed extensively in terms of student affairs applications.

**578 Special Topics in Student Affairs. 3 hours.**

This course is devoted to Student Affairs topics such as Legal Aspects, the Community/Junior College, etc. It may be repeated once (with a different topic).

**579 Seminar in Student Affairs. 3 hours.**

This research oriented, discussion course is designed to focus on current issues and practices in Student Affairs.

**\*580 Family Life Studies. 3 hours.**

General philosophy and broad principles of family life education of the counselor and teacher. Issues of gender, ethnicity, sexism and gender role stereotyping and their impact on the individual family member as well as the family system.

**\*582 Human Sexuality in Counseling. 3 hours.**

Knowledge, attitudes, and skills required for counseling with a broad spectrum of sexual concerns.

**\*584 Counseling Violent and Dysfunctional Families. 3 hours.** Analysis of incidence and patterns of violence against children, adolescents, adults, and elders; motivational factors regarding perpetrator and victims. Counseling and helping strategies for working with family members and the abused victim in counseling and school setting.

**\*586 Parenting Issues. 3 hours.**

Changing roles and responsibilities of parents, child-rearing practices, diverse parenting situations and decision making about parenthood. Changing family system and effects of family system on parenting. Provide skills in working with parents and parenting issues for both educators and counselors.

(\*Formerly HEFL courses that are used only as subject matter coursework)

**588 Family Systems Counseling. 3 hours.**

The historical development of systems theory will orient the student to theoretical content of human interactions. Student will be helped to think systemically about human issues by focusing on the systems paradigm. Skill development in family system counseling will be developed.

**590 Practicum. 3 hours.**

Prerequisite: 15 hours in counseling courses including the following courses: 550, 554 and 558.

Supervised experiences in a setting related to area in which individual plans to seek certification/employment.

**595 Internship. 3 to 6 hours.**

Supervised experience in school, community, and agency settings.

**599 Thesis Research and Writing. 1 to 6 hours.**

**651 Readings in Contemporary Counseling. 3 hours.**

Significant books and research articles related to counseling theory, theory application, and innovative techniques.

**652 Research in Guidance and Counseling. 1 to 3 hours.**

Research problems relating to the organization and administration of guidance programs. May be repeated once with a different topic.

**654 Educational and Intellectual Analysis of Children and Adults. 3 hours.**

Administration and interpretation of standard mental and aptitude tests as tools of educational and occupational guidance.

**655 Advanced Appraisal of Children. 3 hours.**

Prerequisites: Cns 552 and 654, or equivalents.

Continuation of Cns 654 designed to increase administration-interpretation skills in individual appraisal process.

**656 Seminar in Career Guidance and Occupational Adjustment. 3 hours.**

Vocational guidance and occupational adjustment and its application at all educational levels as well as to business, industry, and government.

**658 Seminar in Guidance and Counseling. 3 hours.**

Presentation and discussion of research in guidance and counseling. Emphasizes theoretical and practical criticism

of relevant studies in the field. (May be repeated with a different topic for a maximum of 6 hours.)

- 660 **Administration of Counseling Services.** 3 hours.  
Administration of human services in counseling including justification of services, staffing, facilities, budget, etc.
- 661 **Introduction to Rehabilitation Counseling.** 3 hours.  
Basic counseling procedures appropriate to rehabilitation; history, settings and functions of the counselor.
- 662 **Seminar in Disability and Rehabilitation Counseling.** 3 hours.  
Psychological, physiological and sociological impact of congenital and traumatic disabilities, with emphasis on the rehabilitation counselor's role.
- 663 **Counseling the Exceptional Child and Parent.** 3 hours.  
General concepts of exceptionality, the needs of and effective counseling techniques for the exceptional child; referral, resources, staffing and coordination efforts of the counselor; the needs of and effective counseling techniques for the parent of the exceptional child.
- 666 **Legal and Ethical Issues in Counseling.** 3 hours.  
Course provides opportunities for mental health providers to make decisions of an ethical nature about people and deal with possible legal actions that result.
- 667 **Drug Abuse Counseling.** 3 hours.  
Counseling issues related to substance abuse diagnosis, treatment and aftercare program.
- 669 **Special Topics in Counseling and Guidance.** 1 to 3 hours.  
May be repeated with a different topic for a maximum of 6 hours.
- 699 **Specialist Project.** 6 hours.
- 700 **Maintaining Matriculation.** 1 to 6 hours.

### **Specialist in Education (School Administration)**

This advanced professional degree requires a minimum of 36 semester hours of graduate credit beyond the master's degree. Designed to expand the skills for educational leadership in educational administration, the Ed.S. program provides the opportunity for individuals to develop competence in their areas of specialization and to meet specific goals and objectives for educational leadership in a global society.

Applicants desiring to pursue a specialist degree program must complete graduate and departmental requirements for admission. The minimum departmental requirements include:

- A master's degree from an accredited college or university with a minimum GPA of 3.5;

- A minimum GRE score of 1250 on the three (3) part general test;

- Recommendation of the EDAD Admissions Committee for admission.

Major emphases are available as follows: early

elementary principal, middle school principal, secondary school principal, supervision and curriculum, and general educational administration. Completion of the Ed.S. degree does not guarantee certification in educational administration but may lead to such certification including Rank I on the basis that requirements for those programs are met.

Coursework is within three areas: Foundations Core-research, historical or sociological foundations of education, fundamentals of educational administration, counseling/guidance (6 hours minimum); Cognate-sociology, psychology, economics, business administration, guidance, exceptional child education, higher education, computer technology or other related areas, (6 hours minimum); Major Emphasis-18 hour minimum including research study or project. Elective courses shall be selected in a manner to insure that 12 semester hours of non-professional education is included within an individual's total graduate work.

### **Joint-Doctoral Program (With the University of Kentucky)**

Persons who have completed, or are completing, a master's degree in education and who have adequate qualifications may petition to enter a joint program leading to the Ed. D. or Ph.D. in Education from the University of Kentucky. In addition, admission standards of the doctoral degree granting institution must be met.

Application is filed with the Graduate Studies Office of Western Kentucky University. The applicant's qualifications are evaluated by a screening committee, which makes recommendations to the appropriate university.

Each student admitted to the program is appointed an advisory committee, which represents both participating institutions. For further information, contact the Office of Graduate Studies, Western Kentucky University, or the Head of the Department of Educational Leadership.

### **Non-Degree Programs**

Students wishing to pursue one of the following programs must make application to the Office of Graduate Studies. Upon completion of the program, individuals must contact the certification officer in the College of Education. That official then certifies to the State Department of Education that rank requirements have been met.

### **Rank I Programs**

The Department of Educational Leadership offers the following Rank I programs in accordance with the



minimum regulations prescribed by the Kentucky State Board of Education:

1. Rank I - Standard Guidance (leading to standard certification in guidance)
2. Rank I - School Administration (the professional certificate in administration and supervision endorsed for specific administrative positions)

#### **General Guidelines:**

1. Rank I classification shall require the completion of 60 semester hours of approved graduate level credit including a master's degree.
2. The student's program shall be planned in consultation with the advisor and shall be related to the professional needs of the individual.
3. A minimum of 15 semester hours must be in courses open only to graduate students.
4. The student shall maintain a 3.5 GPA and no credit shall be given for a course grade lower than C for school administration.
5. At least 15 of the required hours shall be taken at Western Kentucky University. The remaining hours may be taken, upon approval of the college advisor and the certification officer, at other institutions provided the grade is A or B.

#### **Rank I - Guidance Program**

The Rank I guidance program, which leads to the standard certificate in guidance and counseling, is designed to provide additional preparation and competency for school counselor personnel. The planned program requires a minimum of 60 hours including a master's degree and one year's experience as a school counselor.

The 60-hours program leading to the standard guidance certificate must be individually planned in consultation with the student's advisor and must include the following:

Counseling - 18 hours beyond the provisional certificate including Cns 556, 559, 666 and electives  
 Behavioral sciences/related fields - 9 hours  
 Education research - 3 hours  
 Electives - to bring the total to 60 hours

A student who has a provisional certificate may wish to extend his/her certificate to K-12 while working on a standard certificate. Those who have a counseling certification K-8 may extend their certificate K-12 by completing the following: Cns 562, 566, 590 (Practicum secondary).

Those who have a counseling certificate 5-12

may extend their certification K-12 by completing the following: Cns 561, 565, 590 (Practicum - elementary).

A certified teacher with a master's degree outside guidance must complete at least 24 semester hours in counseling coursework toward the provisional guidance certificate as a part of the Rank I program.

#### **Rank I - School Administration**

The Rank I in School Administration is a 60-hour planned program which includes endorsements in one or more of the following leadership positions: early elementary principal, middle school principal, secondary principal, director of pupil personnel, supervisor of instruction, and superintendent. For admission, a student must have the master's degree, a standard teaching certificate, three years of full-time appropriate teaching experience, a 3.2 GPA on all the graduate course work, and meet the minimum test score requirements on one of the following: 1250 GRE, state minimum NTE Core, or 50th percentile MAT. Application should be made to graduate studies and to the department prior to earning more than three hours credit beyond the master's degree. Specific prerequisite courses will be identified by the assigned advisor.

**STUDENTS SHOULD CONSULT THE DEPARTMENT FOR ADDITIONAL INFORMATION CONCERNING THE ADMISSION APPLICATION PROCESS.**

#### **Certification for School Principal Endorsement (Early Elementary, Middle School, or Secondary)**

The professional certificate for school administration and supervision may be endorsed for either the early elementary, middle, or secondary school principalship when the following conditions have been met:

1. Prerequisites include three years full-time appropriate teaching experience; standard teaching certificate; master's degree; a 3.2 GPA or above on all graduate work and an acceptable score on either the GRE, MAT, or NTE.
2. Completion of the appropriate prerequisite courses.
3. Completion of a minimum of 60 semester hours of graduate credit including the master's degree. Within these total hours the student must complete the required professional courses as outlined in a planned program designed to provide the student with appropriate administrative competencies.
4. Satisfactory scores on the NTE Core Battery-Communication Skills and Test of General Knowledge, Administrative Specialty Test of the NTE and the Kentucky Administrative Specialty Test. These tests are

required by the state and the minimum scores are established by the state.

5. Satisfactory completion of a one year internship as required by the state.
6. The student will be tested by the department after all Level I courses have been completed.

#### **Certification for Supervisor Endorsement**

1. Prerequisites include three years full-time appropriate teaching experience; standard teaching certificate; master's degree; a 3.2 GPA or above on all graduate work and an acceptable score on either the GRE, MAT, or NTE.
2. Completion of the appropriate prerequisite courses.
3. Completion of a minimum of 60 semester hours of graduate credit including the master's degree. Within these total hours the student must complete the required professional courses as outlined in a planned program designed to provide the student with appropriate administrative competencies.

#### **Certification for Superintendent Endorsement**

The professional certificate for school administration and supervision may be endorsed for the position of school superintendent when the following conditions have been met:

1. Completion of Level I and II preparation requirements for administrative endorsement as principal or supervisor.
2. Two years full-time experience in an administrative position.
3. Completion of the approved program with 36 semester hours graduate credit above the master's degree.

#### **Certification for Director of Special Education Endorsement**

The endorsement for director of Special Education may be recommended when the following conditions have been met:

1. The applicant must hold a valid certificate as a teacher of exceptional children in one of the recognized categories of exceptionality and have three years of full-time teaching as a teacher of special education.
2. The applicant must have completed a master's degree in Special Education.
3. The applicant must gain acceptance to graduate studies and the educational administration program.
4. The applicant must complete a minimum of 15 graduate hours in the approved program of study at WKU.

#### **Certification for Administrator of Pupil Personnel Services Endorsement**

The professional certificate in school administration and supervision may be endorsed for the position of director of pupil personnel when the following conditions have been met:

1. Prerequisites include three years full-time appropriate teaching experience; standard teaching certificate; master's degree; a 3.2 GPA or above on all graduate work and an acceptable score on either the GRE, MAT, or NTE.
2. Completion of the appropriate prerequisite courses.
3. Completion of a minimum of 60 semester hours of graduate credit including the master's degree. Within these total hours the student must complete the required professional courses as outlined in a planned program designed to provide the student with appropriate administrative competencies.

#### **Certification for Administration and Supervision of Vocational Education Programs**

This program area is based on the prerequisites as stipulated by State Certification regulations: the baccalaureate degree and preparation for a ten year certificate (provisional) for any one of the areas of vocational education authorized in the Kentucky State Plan for Vocational Education. Any individual planning to pursue this program should present a copy of the appropriate certificate to the department and advisor concerned. The candidate must have earned a 2.75 or above grade point average on all undergraduate work attempted. Two years of successful full-time teaching experience in a vocational education program is required of candidates.

An approved program of study with a minimum of 15 semester hours will be written by the assigned advisor.

#### **Graduate Courses in Educational Foundations**

- 500 Research Methods.** 3 hours.  
Includes theory of research, experimental design, bibliographical and data gathering techniques, and interpretation of results.
- 501 Educational Statistics.** 3 hours.  
Graphic and tabular arrangement of data, measures of central tendency and of relationship.
- 548 Research in Curriculum and Instruction.** 1 to 3 hours.  
Research in elementary instructional problems in reading, mathematics, science, social studies, English, and in elementary and secondary curriculum.
- 570W Workshops in Education.** 1 to 3 hours.

Special short courses on educational problems.

- 576 Social Foundations of Education.** 3 hours.  
Selected problems in American society, their impact on the educational system, and the possible role of that system in resolving such problems.
- 577 Philosophy of Education.** 3 hours.  
The relationship between philosophy and education. Emphasizes the development of an effective individual philosophy of education.
- 675 Higher Education in America.** 3 hours.  
History, purpose, philosophy, organization, curriculum, student personnel services, financial services, and trends of the American system of higher education.
- 685 Academic Problems in Higher Education.** 3 hours.  
Prerequisite: Hi Ed 675, or permission of instructor.  
Major problem areas of academic administration with emphasis on issues and procedures of college and university level curricular development.

### Graduate Courses in School Administration

- 581 Organization and Administration of Occupational Education.** 3 hours.  
Organization, administration, and implementation of occupational education programs as an integral part of the educational system.
- 583 Accounting for Pupil Personnel.** 3 hours.  
Emphasizes the responsibilities of directors of pupil personnel, problems of personnel accounting, and records and reports related to the Minimum Foundation Program.
- 585 Fundamentals of School Administration.** 3 hours.  
Organization and administration of American schools. Principles of effective leadership and the roles and responsibilities of administrative supervisory positions.
- 588 School Business Management.** 3 hours.  
Effective operation of the fiscal and business aspects of school administration in the educational program.
- 590 Administration of School Personnel.** 3 hours.  
Allocation of human resources to accomplish the purposes of the school organization.
- 594 Seminar on Leadership in Education.** 3 hours.  
Principles and practices of leadership relative to community resources in the development and operation of education programs.
- 596 Readings in Education.** 1 to 3 hours.  
Prerequisite: Permission of major professor. Reading and research in an area of individual interest. Supervised by the major professor.
- 597 Problems in Administration and Supervision.** 1 to 3 hours.  
Prerequisite: Permission of instructor.  
Identifying and attempting to solve administrative problems in the local school setting.
- 598 Field-Based Experience in Educational Administration.** 3 hours.  
Clinical experiences with practitioners in the field to acquaint the prospective administrator/supervisor with the realities of educational organizations.
- 601 Statistical Techniques for Experimental Designs in Education.** 3 hours.  
Parametric and non-parametric statistical techniques applied to experimental and quasi-experimental research designs in educations.
- 620 Seminar in the Administration of Special Education.** 3 hours.  
Current trends and issues in the administration and supervision of special education programs, including personnel issues, student identification issues, program assimilation and human relationships.
- 625 Practicum in the Administration of Special Education.** 3 hours.  
Supervised practice in educational organizations for persons preparing to become a Director of Special Education.
- 630 Special Education Law and Finance.** 3 hours.  
Comprehensive study of existing school law codes, budgeting, and accounting for special education.
- 674 Educational Technology for School Administrators.** 3 hours.  
Prerequisites: Sch Ad 585, and either 691, 692, or 693. In special cases, permission of instructor would be required. Acquainting the prospective administrator with new and innovative technologies applicable to educational settings.
- 676 Public School Finance.** 3 hours.  
School budgets and accounting for school money; unit costs and cost accounting; accounting for school property; insurance, business procedure, and office practice.
- 677 School Law.** 3 hours.  
Clinical study of existing school code; judicial decision; administrative problems and school code.
- 678 School Plant Administration.** 3 hours.  
Prerequisite: Sch Ad 585.  
Educational needs and building planning; architect service; standards of construction; building surveys.
- 679 The Superintendency.** 3 hours.  
Function, role, and responsibilities of the school superintendent. Topics include politics and education; superintendent's relationships with the school board, central office staff, and with the state department of education; the budget process; strategic management; curriculum management.
- 682 School-Community Relations.** 3 hours.  
Background, need, and techniques for establishing a wholesome working relationship with laymen, with emphasis on their involvement in school programs.
- 683 Seminar in Curriculum Development.** 3 hours.  
Examination of factors influencing the curriculum development.
- 684 Instructional Leadership.** 3 hours.  
Identification of practices and characteristics of supervisors and administrators, relative to curriculum and instruction, that have been shown to significantly improve student achievement.

- 686 **Principles of Supervision.** 3 hours.  
The instructional aspect of school administration; organization, problems, principles, and techniques of improving inservice training for teachers.
- 691 **The Early Elementary School Principalship.** 3 hours.  
Prerequisite: Sch Ad 585.  
Problems of instruction; classification, promotion, and guidance of pupils; custodial services; relationship with patrons and community.
- 692 **The Middle School Principalship.** 3 hours.  
Prerequisite: Sch Ad 585.  
Programs of instruction; classification; promotion and guidance of pupils; relationships with professional and non-professional personnel and with the community.
- 693 **The Secondary School Principalship.** 3 hours.  
Prerequisite: Sch Ad 585.  
Programs of instruction; classification, promotion, and guidance of pupils; the principal's relationship with non-professional personnel, patrons, and community.
- 694 **Seminar in Educational Administration.** 3 hours.  
Emphasis on current practices in administering special programs.
- 695 **School Surveys.** 3 hours.  
Gathering and interpreting data; evaluating educational programs and facilities; predicting future enrollment; and presenting results to school authorities.
- 696 **Advanced Theory in Education Administration.** 3 hours.  
Prerequisite: Permission of instructor.  
Theoretical approaches to the study of education administration and leadership.
- 697 **Research in Administration and Supervision.** 1 to 3 hours.  
Special projects in administration and supervision.
- 698 **Practicum in Administration and Supervision.** 3 to 6 hours.  
Prerequisite: Permission of instructor.  
Internship or other field experiences for administrators and supervisors.
- 699 **Specialist Project.** 6 hours.
- 700 **Maintaining Matriculation.** 1 to 6 hours.

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## DEPARTMENT OF HOME ECONOMICS AND FAMILY LIVING

ACADEMIC COMPLEX, CANNON WING  
ROOM 303 (502) 745-4352

Carl Hall, Head

## Graduate Faculty

**Professors:** S. Clark, L. Ehrcke, L. Fong, M. Jenkins, V. Moore, J. Rasdall

**Associate Professors:** V. Atkins, M. Casto, B. Fulwood

**Degrees Offered:** Master of Arts in Education (Home Economics Education major and minor); Specialist in Education (Vocational Home Economics major).

Graduate programs in Home Economics and Family Living are currently being revised. It is important to visit with the Head of Department before applying for any program in the Department.

**Master of Science in Home Economics** - this degree and its three options have been temporarily suspended.

**Master of Arts in Education** (Home Economics Education major or minor)

This program is planned for teachers pursuing the standard high school certificate. Applicants must have an undergraduate area of concentration in home economics education. Required courses for the major are HEFL 572, 573, 574, and 9-12 hours of HEFL electives to be approved by the advisor. Required for the education minor are Educ 540 and 500. The HEFL minor required 12-15 hours along with 15-18 hours in professional education. All programs leading to the standard high school certificate must contain Ed Fnd 500, Sec Ed 544, and 580, and either Psy 510, or 511. All programs must be approved by the coordinator of vocational home economics.

**The Master of Science in Home Economics (with its three options) has been suspended. Contact the department for further details.**

**Master of Science in Home Economics** (See note above)

This degree is designed to prepare individuals for positions requiring specialization at the master's level or to provide an adequate foundation for study beyond the master's degree. Three options are available: Interior Design and Housing, Textiles and Clothing, and Foods and Nutrition.

## Option in Interior Design and Housing

Applicants must be eligible for admission to the graduate program and must submit a portfolio

representative of their work. Decisions in regard to acceptability of coursework for admission, deficiencies, and program planning will be made by the graduate faculty in interior design and housing.

The required 30 hours of graduate work must include HEFL 480G, 482G or 483G, 484G, 536, and 537.

Nine additional hours--either nine hours of approved electives or six hours of thesis and three hours of electives--in interior design and housing, and six hours in an approved cognate field.

For Plan A, a thesis must be submitted in a specific area of interior design and housing. For Plan B, six hours of approved electives may be taken in lieu of the thesis.

The research tool requirement usually involves demonstration of the ability to read a foreign language or specialized study in statistics and research methods or computer utilization.

### Option in Textiles and Clothing

Applicants must be eligible for admission to the graduate program and should have the equivalent of an undergraduate minor (18 hours) in textiles and clothing as well as basic courses in psychology, sociology, and chemistry. Decisions in regard to acceptability of coursework for admission, deficiencies, and program planning will be made by the graduate faculty in textiles and clothing.

The required 30 hours of graduate work must include HEFL 536 and 537; 12 hours of textiles and clothing elective courses, at least three of which must be at the 500-level or above; and six hours in an approved cognate field. For Plan A, a thesis must be submitted in a specific area of textiles and clothing. For Plan B, six hours of approved coursework, at least three of which must be at the 500-level or above, must be taken in lieu of the thesis.

The research tool requirements usually involves demonstration of the ability to read French or specialized study in statistics and research methods or computer utilization.

### Option in Foods and Nutrition

Applicants must be eligible for admission to the graduate program and should have adequate background in home economics education and/or in the allied health areas. Decisions regarding acceptability of coursework for admission, deficiencies, and program planning will be made by the graduate faculty in foods and nutrition. This option provides flexibility for students to emphasize course concentration consistent with their vocational goals: dietetics, restaurant management, industry, or teaching.

1. A major in Food and Nutrition (18 hours) to include core courses, HEFL 536 and 537.

2. A thesis dealing with a specific area of foods and nutrition (option A) or 6 hours of approved coursework such as HEFL 575 and/or 580 (option B).

3. A cognate field (6 hours) approved by the student's advisor.

The research tool requirement involves demonstration of the ability to read a foreign language, specialized study in statistics and research methods, or computer utilization.

**Specialist in Education** (Vocational Home Economics major) see Department of Teacher Education.

### Graduate Courses in Home Economics and Family Living

- 520 **Seminar in Home Economics and Family Living.** 3 hours.  
Survey of recent developments and present trends conducted in a particular area of the Department of HEFL or deemed appropriate by faculty and student demand.
- 521 **Interior Ergonomics I.** 3 hours.  
Sociological and psychological factors in interior design--separately, in relationship to each other, and in relationship to other disciplines.
- 522 **Interior Ergonomics II.** 3 hours.  
Cultural and anthropometric literature related to interior design; interrelationships between culture and anthropometrics.
- 531 **Cultural Patterns of Dress.** 3 hours.  
In-depth analysis of literature and research related to cultural aspects of clothing. Specific cultural emphasis will vary.
- 533 **Developing Fashion Merchandising Programs.** 3 hours.  
Principles, problems, and practices of curriculum, field experiences, and extended classroom activities related to fashion merchandising.
- 535 **Textile Analysis and Interpretation.** 3 hours.  
Prerequisites: HEFL 435 and chemistry. Qualitative and quantitative techniques for physical and chemical analysis of textiles. Planning and conducting textiles analyses and evaluating resulting data.
- 536 **Seminar in Institutional and Home Environment.** 3 hours.  
Technological, cultural, and educational developments in institutional and home environment. Opportunity to pursue individual interest in specialized areas, e.g., textiles, clothing, merchandising, interior design, housing, foods, home economic education, etc.
- 537 **Critique and Design of Investigations in Home Economics.** 3 hours.  
Opportunity to pursue individual interest in specialized areas, e.g., textiles, clothing, merchandising, interior design, housing, foods, nutrition, textiles, home economics education, etc. Critical evaluation of theses and published research.

- 572 Curriculum Development in Home Economics Education.** 3 hours.  
Curriculum trends in home economics education and curriculum development in specialized fields of home economics.
- 573 Evaluation in Home Economics Education.** 3 hours.  
Theory and techniques of evaluation in home economics education at different levels. Analysis and refinement of instruments; interpretation of results of self-evaluation; and effective administration of programs.
- 574 Supervision of Home Economics Education.** 3 hours.  
Prerequisite: Teaching experience, advanced courses, and consent of instructor. Theory, principles, and techniques of preservice and inservice training of teachers in home economics. Emphasis on preparation of supervisory materials and evaluation.
- 575 Individual Study in Home Economics and Family Living.** 3-6 hours.  
Evaluation of home economics investigations. Includes planning and completing an individual study of limited scope.
- 577 Seminar in Child Development Research.** 3 hours.  
Prerequisite: HEFL 576, or equivalent preparation. Analysis of current theories and research relevant to the development of social perceptual-cognitive, and physical-physiological processes in children.
- 580 Internship.** 3 hours.  
Prerequisite: Approval of instructor.  
A field practicum in foods and nutrition, textiles and clothing, interior design, or home economics education. Assignments are made to approved private and public agencies/facilities.
- 582 Sensory Evaluations and Qualities of Foods.** 3 hours.  
Principles and methodologies in sensory evaluations of foods; collection, analysis and presentation of sensory data; focuses on determinants of quality in foods.
- 583 Human Resources in Food Systems.** 3 hours.  
Identification of personnel needs by skill levels; planning and evaluation of personnel programs in food systems; training applicants for optimum utilization of human resources.
- 584 Community Nutrition.** 3 hours.  
Prerequisite: HEFL 167 or 262, 362, or consent of instructor. Analysis of literature and research related to nutrition problems facing patients returning to home and community; analysis of community resources that assist with specific problems. (Lecture, field trips and lab)
- 585 Nutrition for the Elderly.** 3 hours.  
Analysis of literature and research related to nutrition problems of the elderly; analysis of resources that assist them with their specific problems, (Lecture, field trips, and lab)
- 598 Special Topics in Home Economics and Family Living.** 1 to 6 hours.  
Prerequisite: Consent of instructor.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

**The following 400-level courses may be taken for graduate credit:**

- 420G Non-Residential Studio.** 3 hours.  
Planning of non-residential interiors including cost control, selection of furnishing, lighting, and presentation.
- 422G Textile Design II.** 3 hours.  
Historic and contemporary design. Applications for costume, home furnishings, and accessories.
- 424G Specifying and Buying Interior Furnishings.** 3 hours.  
The behavioral basis for selecting and specifying interior artifacts to satisfy human wants and needs; examination of the marketplace and its mechanisms to implement specifications.
- 425G History of Costume.** 3 hours.  
Costumes from ancient times to present; cultural and economic factors.
- 427G Presentation Techniques II.** 3 hours.  
Rendering and presentation techniques and materials including pen and ink, watercolor, marketing, mixed media, portfolio preparation, and photographic reproductions.
- 428G Merchandise Display and Promotion.** 3 hours.  
Principles and practices in arranging and displaying merchandise and planning and executing sales promotions.
- 430G Historic Textiles.** 3 hours.  
Prerequisite: HEFL 231.  
Decorative fabrics and the history of textile design from ancient times to present.
- 431G Clothing and Human Behavior.** 3 hours.  
Prerequisites: 9 hours of social science or consent of instructor.  
Dress and adornment as related to human behavior.
- 432G Recent Development in Textiles.** 3 hours.  
New developments in textiles as reported in current literature.
- 433G Fashion Fundamentals.** 3 hours.  
Fashion as a social force. The fashion world; designers, leading markets, fashion cycles.
- 434G Advanced Clothing Tailoring.** 3 hours.  
Advanced techniques of tailoring.
- 435G Advanced Textiles.** 3 hours.  
Prerequisites: HEFL 231 and chemistry.  
Relation of fiber and fabric properties to serviceability; testing of fabrics with emphasis on interpretation of results in consumer choice. Individual problems.
- 436G Advanced Clothing Design.** 3 hours.  
Interpretation and development of original designs through the media of flat pattern and/or draping.
- 437G Fashion and Design Study Tour.** 3 hours.  
Travel to fashion and design centers to observe current trends in design, production, marketing and promotion of textiles, clothing, and home furnishings.
- 438G Textile and Clothing Merchandising II.** 3 hours.



Prerequisite: HEFL 333.

Principles, techniques, and practices of effective fashion merchandising. Includes problems in store design and display, supervision of retail establishment, and fashion merchandising.

- 446G Restoration of Historic Interiors.** 3 hours.  
Design and other aspects of interior historic restoration of both academic and vernacular structures. Attention focused on aesthetic issues of designing domestic and commercial historic interiors for restoration or adaptive reuse. Cross-listed FLK ST 446G.
- 447G History of Architecture Interiors III.** 3 hours.  
Analysis of styles in architectures and interiors from ca. 1900 to present time. Emphasis on interiors and furnishings of both academic and vernacular structures and the forces which affected their development. Cross-listed FLK ST 447G.
- 461G Advances in Science of Nutrition.** 3 hours.  
Individual study of literature and research concerned with foods and nutrition.
- 464G Advanced Foods.** 3 hours.  
Prerequisites: HEFL 261, Chem 107, or consent of instructor. Biol 207 recommended.  
Chemical, physical, and microbiological factors related to foods.
- 465G Diet Therapy.** 3 hours.  
Prerequisites: HEFL 363, Biol 472, and Chem 309.  
Principles of nutrition in the treatment of certain organic, functional, and metabolic diseases or conditions.
- 466G Experimental Foods.** 3 hours.  
Ingredients and their function; factors involved in food preparation; evaluation of foods by objective measurements.
- 480G User-oriented Interior Design and Housing.** 3 hours.  
Methods of determining user needs so that resultant interior design and housing may satisfy those needs.
- 481G Lighting Design.** 3 hours.  
Prerequisite: HEFL 382.  
Lighting and wiring design for residences and the near environment. Emphasis on economics of installation and energy use, aesthetics, safety, and function of activity areas.
- 482G Residential Energy Resources and Problems.** 3 hours.  
Issues and trends in the supply and use of non-human energy resources. The roles and choices of space designers and consumers regarding design, selection, and use of housing, home furnishings, and appliances.
- 483G Household Equipment Design and Usage Factors.** 3 hours.  
Materials, finishes, and design of household equipment. Emphasis on use, safety, and productivity.
- 484G Space and Activity Analysis.** 3 hours.  
Includes concepts of time use, productivity, family economics and selected environmental components relative to housing interiors. Attention given to housing and design criteria for special needs.
- 485G Residential Studio.** 3 hours.

Prerequisites: HEFL 227, 280, 382, 424 or review of portfolio and consent of instructor.

Study of and practical experience with programming; space layouts; selection of color, equipment, fabric, and furnishings; cost estimates and rendering for clients.

- 491G Family Life Education.** 3 hours.  
Designed to meet the needs of home economics teachers, dietitians, extension agents, and other professionals who are involved in working with basically normal families. Emphases are given to socialization in sexual roles, marriage and parenthood, improving family relationships, the roles of the school in preparing students for democratic family living, and equality of the sexes and dual careers.
- 492G Institution Food Preparation.** 3 hours.  
Basic food preparation principles applied to quantity food production and services. Standardization of recipes and procedures. (Lecture, 1 hour; practicum, 10 hours)
- 493G Institutional Purchasing.** 3 hours.  
Principles and methods of buying foods and supplies for various types of quantity food services. Emphasis on specifications, standards, inventory, and factors affecting quality and cost control.
- 494G Applied Institution Administration.** 3 hours.  
Prerequisites: HEFL 390, and 492.  
Standard methods of quantity food production, menu planning, food cost determination, job analysis and problems involved in institution administration, requires administrative responsibilities, under supervision. (Lecture, 1 hour; practicum 10 hours)
- 495G Organization and Management of School Lunch Service.** 3 hours.  
Prerequisites: HEFL 390, 494. Sec Ed 370 is recommended.  
Organization and management of single and multiple school lunch units including menu planning, purchasing records, equipment, and meal service.
- 496G Menu Planning and Merchandising for the Food and Lodging Industry.** 3 hours.  
Prerequisite: HEFL 492.  
Menu planning for group feeding, meeting nutritional needs of different age levels, portion costs, menu pricing, and merchandising.
- 497G Food and Labor Cost Control.** 3 hours. Prerequisite: Approval of instructor. Areas studied include work management methods, relationship of labor costs and mechanization, food cost controls, portion control, methods of purchasing and preparation, and application of accounting and inventory procedures.
- 498G Special Topics in Home Economics and Family Living.** 1 to 3 hours.  
Prerequisite: Approval of department head. Topics selected from child development and family living, dietetics, foods, nutrition, institutional administration, textiles and clothing, interior design, home economics education. May be repeated with different topic.
- 499G Parenting Strategies.** 3 hours.  
Examination of critical incidents in the growth of children with a stress upon those parenting techniques which are effective within functional families. Attention is given to such issues as discipline, understanding and reflecting

upon feelings, moral training, and the encouragement of a child in his/her classroom studies.

## DEPARTMENT OF PHYSICAL EDUCATION AND RECREATION

ACADEMIC-ATHLETIC BUILDING #2  
ROOM 316 (502) 745-3347

Burch Oglesby, Head

### Graduate Faculty

Professors: T. Crews, C. Crume, C. Daniel, W. Kummer, A. Little, W. Meadors, B. Oglesby

Assistant Professor: S. Spencer

**Degrees Offered:** Master of Science in Physical Education, Master of Arts in Education (Physical Education major or minor), Master of Science in Recreation.

**Requirements for Admission to the Physical Education Programs:**

A student can be admitted to the Physical Education Programs if they have an undergraduate Physical Education Major or the equivalent of an undergraduate minor in Physical Education. The following courses constitute the Physical Education minor as defined by the Physical Education Department. A description of each course can be found in the current Undergraduate Catalog Issue.

Course #	Course Title	Hours
PHY 201	Applied Human Movement I	2
PHY 202	Applied Human Movement II	2
PHY 203	Applied Human Movement III	2
PHY 204	Applied Human Movement IV	2
PHY 291	Scientific Basis of Conditioning	3
PHY 420	Adaptive Physical Education	3
PHY 470	Secondary School P.E. Curriculum	3
PHY 490	Evaluation in Physical Education	2
Upper Division Elective from Courses numbered PHY 333-348		3
		22 hrs

## Master of Science in Physical Education

This program consists of an area of interest focusing on the Scientific Basis of Motor Learning and Performance. All candidates are required to take PHY 501, 503, 504, 505, 515, and 530. Twelve (12) hours of electives are selected in consultation with the graduate advisor. Although a thesis is optional, students are encouraged to write a thesis. The research tool requirement will be met by completion of a statistics course.

## Master of Arts in Education (Physical Education major or minor)

Students following this program must meet all requirements for the standard high school certificate. The area of interest for this degree program is Pedagogy. The student majoring in physical education must take PHY 501, 503, 504, 505, 508 and 520. Three (3) elective hours in physical education or allied areas are also required. The student minoring in physical education must take PHY 504, 505, 508 and 520. (Note: For both the major and minor, students who have taken an adaptive physical education course in their undergraduate program may substitute an elective course for PHY 508).

## Master of Science in Recreation

This program is designed to prepare professional recreation practitioners for a wide range of recreation and leisure service occupations; provide opportunity for study in a specialized area of recreation; provide knowledge of research procedures; and provide academic background for students planning to pursue a doctoral study. Although plans A and B are available, candidates are encouraged to write a thesis.

A twenty-four major in recreation is required with a six-hour cognate field to be selected in consultation with the student's graduate committee. A research course is required. The required courses are: RECR 501, 513, 515, 519, 521, and 523. The total number of graduate hours for this degree is 33 semester hours.

## Graduate Courses in Physical Education

- 501 Analysis of Research in Physical Education.** 3 hours.  
Selected studies in the physical education literature related to methods, materials, techniques, and planning of research studies used and conducted by the profession. (To be taken in first term of enrollment)
- 502 Philosophical Bases of Physical Education and Athletics.** 3 hours.  
The influence of major educational philosophies upon physical education and athletics; the development of a practical and usable personal philosophy of modern physical education.
- 503 Motor Learning.** 3 hours.

Prerequisite: PHY 501.

Theories and principles of learning as they apply to the acquisition of gross motor skills. Emphasizes the interpretation and practical application of experimental data.

- 504 Physiological Bases of Motor Performance.** 3 hours.  
Application of physiological principles of motor activity. Inferences on improving instructional practices.
- 505 Foundations of Curriculum Construction.** 3 hours.  
Principles, procedures, and criteria for curriculum construction and revision, course building, and lesson planning.
- 506 Psychological Aspects of Sport and Performance.** 3 hours.  
Prerequisite: PHY 501.  
The various psychological parameters on sport performance.
- 507 Sport in Culture.** 3 hours.  
The sports movement in America from a socio-cultural viewpoint. Analysis of current problems and trends.
- 508 Adapted Physical Education,** 3 hours  
In-depth study of instruction of disabled children in mainstream and/or special physical education classes. Knowledge and skills necessary to assess, plan intervention, and instruct mild, moderate, severely/profoundly disabled children in physical education.
- 510 Seminar: Facilities, Construction, and Equipment.** 3 hours.  
Principles, standards, practices, and problems in planning, constructing, administering the building program, maintaining the facilities and in purchase and care of equipment.
- 511 Theory in Administration and Supervision of Physical Education and Athletics.** 3 hours.  
Basic administrative theory and research for the administration of physical education and athletic programs.
- 512 Seminar: Administration Problems in Physical Education and Athletics.** 3 hours.  
Organization and control of physical education and athletics programs at various education levels. Discussion of controversial issues and practice in seeking solutions.
- 515 Assessment in Physical Education and Recreation.** 3 hours.  
Focusing on assessment tools utilized to measure motor development, fitness, motor skills, etc.
- 520 Teaching Strategies in Physical Education.** 3 hours.  
Study and application of teaching strategies utilized in the elementary and secondary school PHY setting.
- 530 Independent Investigations in Physical Education.** 3 hours.  
Prerequisites: PHY 501, and consent of instructor.  
Research problems or projects in the organizational, administrative, or supervisory areas of physical education.
- 570 Workshop in Physical Education.** 3 hours.  
Workshop and/or seminars dealing with special problems and current topics in physical education.

- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

### Graduate Courses in Recreation

- 501 Analysis of Research in Recreation.** 3 hours.  
Selected studies in recreation literature relative to methods, materials, techniques, and planning of research studies used and conducted by the profession.
- 511 Recreation and Gerontology.** 3 hours.  
Importance of recreation to the lives of the aged; assisting them in worthwhile, constructive use of leisure time; developing statistical and problem solving skills essential to gerontological research, program planning, and administration.
- 513 Organization, Administration, and Supervision of Parks, Playgrounds and Recreation Programs.** 3 hours.  
Organization and administration of recreation at federal, state, and local levels. Correlation and integration of the entire recreation program into the culture and society of the community.
- 515 Planning and Maintenance of Park and Recreation Facilities.** 3 hours.  
Principles and problems in planning and maintenance of park and recreation facilities. Relationship of facilities to program needs. Field trips required.
- 517 Construction and Utilization of the Survey of Recreation.** 3 hours.  
Planning, application, and evaluation of the survey as a means of determining recreation program needs in selected settings.
- 519 Fiscal Practices for the Administrator of Recreation and Parks.** 3 hours.  
Budget construction, record-keeping, purchasing, personnel problems, and office management as related to recreation.
- 521 Public Relations for Parks and Recreation Programs.** 3 hours.  
Effective communication between colleagues, program participants, and the public through the use of audio-visual devices and techniques.
- 523 Philosophy and Trends.** 3 hours.  
Philosophical and historical development of opinions and attitudes toward the concepts of leisure and recreation.
- 530 Independent Investigations in Recreation.** 3 hours.  
Special research problems in the area of recreation.
- 590 Internship in Recreation.** 3 hours.  
Experience in recreation planning, leadership, supervision, and program evaluation through work in recreation, park, and other leisure oriented settings. Supervised by University faculty and personnel from area recreation agencies.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

The following 400-level Recreation courses may be taken for graduate credit:

- 410G Therapeutic Recreation.** 3 hours.  
Principles, trends and programs of therapeutic recreation. Selected disabilities considered.
- 412G Adaptive Activities and Facilities for Recreation.** 3 hours.  
Methods of adapting recreational programs, activities, and facilities for the handicapped.
- 431G Recreation Resource Management.** 3 hours.  
Multi-use recreation resource management concepts in a natural setting; research and issues; synthesis of conceptual and practical knowledge through real and simulated applications.
- 432G Principles of Outdoor Recreation.** 3 hours.  
Values and extent of outdoor recreational philosophy based on legislation, geographic factors, land use, standards, agencies, and economics.
- 433G Camp Administration.** 3 hours.  
Status, purpose, and administration of organized camping. Includes history and trends, selection and training of staff, health and safety considerations, etc.
- 434G Development of Nature Oriented Areas and Facilities.** 3 hours.  
Nature trail design and preparation, live and inanimate exhibit design and preparation, resource inventory, building, exhibit material purchase, vandalism, etc.
- 435G Techniques in Outdoor Education.** 3 hours.  
Field trips, nature crafts, audio-visual aids and interpretive materials, etc., and their importance in developing outdoor education as a recreational activity.
- 450G Introduction to Commercial Recreation and Tourism.** 3 hours.  
Prerequisites: Rec 200, 300, 302, and 306.  
Commercial recreation and tourism, including the establishment, supervision, and operation of areas and facilities.
- 451G Recreation Management.** 3 hours.  
Practical approach to management of park facilities and personnel. Includes program planning, design, and standards.
- 470G Administration of Municipal Recreation.** 3 hours.  
Covers various aspects of recreation in a municipal setting. Includes personnel, financing, facilities, planning, maintenance, and such other topics as legislation and vandalism.
- 471G Community Centers and Playgrounds.** 3 hours.  
Playground and community center operation. Teaching techniques, programming, and problems relating to community recreation.
- 481G Recreation Seminar.** 3 hours.  
Introduces current problems, trends, and issues in the area of leisure services.
- 482G Recreation Workshop.** 1 to 3 hours.  
In-depth study of specific skill areas relating to the

recreational profession.

- 483G Micro Computer Applications in Recreation.** 1 hour  
Prerequisite: CS 145 or CS 240  
A course designed to cover the use of micro computer software with emphasis on recreation related applications. (fall/spring)

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## DEPARTMENT OF PSYCHOLOGY

**TATE C. PAGE HALL**  
**ROOM 276 (502) 745-2695**

**John O'Connor, Head**

### Graduate Faculty

**Professors:** L. Alexander, K. Ball, J. Cangemi, L. Clark, J. Craig, C. Layne, L. Layne, C. Martray, S. McFarland, R. Mendel, L. Metze, R. Miller, J. O'Connor, R. Poe, W. Pfohl, D. Roenker, E. Shoenfelt, R. Simpson

**Associate Professors:** C. Eison, S. Kuhlenschmidt

**Assistant Professors:** J. Bilotta, J. Bruni, K. Hughes, E. Jones, E. Lemerise, S. Mutter, J. Pope-Tarrence, S. Ramsay, J. Wilder

**Degrees Offered:** Master of Arts in Psychology, Master of Arts in Education (Psychology major or minor)

### Master of Arts in Psychology

This general program provides preparation for students who wish to pursue careers in clinical, industrial, governmental, or school settings. The Department offers four options within the program: clinical, experimental, industrial, and school psychology. Within each option, the student is expected to become competent in theory, research, and application of psychology as related to the chosen area of concentration.

Applicants should have a statistics and experimental methodology course; background in general psychology; a minimum score of 850 on the Graduate Record Examination General (verbal and quantitative combined) Test; a GPA of 2.75 with 3.0 in psychology courses; and three letters of

recommendation sent to the Department, along with an application separate from that sent to the Office of Graduate Studies. Beyond these stated minimum requirements, selection is competitive.

Psychology core requirements (21 hours) for all options are as follows:

- Psy 512 Experimental Design - 3 hours
  - Psy 541 Professional Psychology - 3 hours
  - Psy 563 Statistics and Psychometric Theory - 3 hours
  - Psy 552 Advanced Social Psychology - 3 hours
  - Restricted Electives - 9 hours
1. Learned Bases of Behavior (3 hours): Psy 511 Psychology of Learning, or Psy 523 Cognitive Theory, or Psy 673 Advanced Training in Business and Industry.
  2. Individual or Unique Basis of Behavior (3 hours): Psy 520 Psychology of Individual Differences, or Psy 641 Personality Theory and Psychotherapy.
  3. Advanced Analysis of Behavior - Biological or Quantitative (3 hours): Psy 580 Physiological Psychology, or Psy 513 Advanced Statistical Analysis.

Both Plan A (thesis) and Plan B (non-thesis) are available. The research tool is required in all options. No program may have more than 9 hours of 400G level courses. Practicum or internship is required (6 to 9 hours). A comprehensive examination is required at the time of thesis defense or upon completion of coursework.

### **Clinical Psychology (48 hours)**

This option is practice-oriented and offers a broad foundation for individuals planning to render psychological services at the MA level. Students prepare for the certification examination administered by the Kentucky State Board of Psychology and by boards in other states requiring certification for individuals who provide psychological services at the MA level. Practicum, internship (3 hrs.), and thesis (or 2 course electives) are required.

Specific course requirements (15 hours) are as follows:

- Psy 560 Individual Assessment-3 hours
- Psy 640 Psychopathology-3 hours
- Psy 641 Clinical Interviewing-3 hours
- Psy 660 Psychological Evaluation-3 hours
- Psy 480G or 580 Physiological Psychology-3 hours

### **Industrial-Organizational Psychology (45 hours)**

This option focuses on human behavior in industrial and governmental organizations. Students are expected to become proficient in the construction

and validation of personnel selection systems. Selection systems, the Equal Employment Opportunity Commission's (EEOC) guidelines on employment selection procedures and relevant court decisions, and training in business and industry are emphasized in the program. A four-to-six months internship in personnel psychology is encouraged. Thesis is required.

Specific course requirements (15 hours) are as follows:

- Psy 513 Advanced Statistical Analysis-3 hours
- Psy 570 Intro to Ind/Org Psychology-3 hours
- Psy 571 Personnel Psy-3 hours
- Psy 572 Organizational Psy-3 hours
- Psy 670 EEOC, the Law, and Ethical Considerations-3 hours

### **School Psychology**

This option emphasizes training as a diagnostician-consultant. The student will function as an integral part of the total program of pupil-services. Each individual receives on-site experience in public schools, school-related practicum assignments in the Department's psychological clinic, and experience as a member of an interdisciplinary team. Upon completion of the required coursework the student must complete a 1200 hour internship within an educational setting. Practicum, internship, and thesis (or 2 course electives) are required.

Specific requirements (15 hours) are as follows:

- Psy 514 Program Evaluation - 3 hours
- Psy 540 Behavior Prob of Child and Adol. - 3 hours
- Psy 560, 561 Indiv Assessment I, II - 6 hours
- Psy 643 Psycho Ed Assessment - 3 hours
- Total hours - 63.

### **Experimental Psychology (45 hours)**

This option is designed for students who desire a terminal master's degree in general psychology, or who plan to pursue doctoral studies in specialties not included above. Course requirements beyond those required in the core are individually determined by the faculty advisor.

### **Master of Arts in Education (Psychology major or minor)**

Students following this program must meet all requirements for standard high school certification. The major requires a minimum of 18 or a maximum of 21 hours. The minor requires a minimum of 12 hours or a maximum of 15 hours. The remaining hours, in both cases, will be taken in professional education courses. The thesis is recommended.

## Graduate Courses in Psychology

- 500 Trends and Scientific Approaches in Psychological Thinking.** 3 hours.  
New developments and special topics in contemporary psychological research. May be repeated with a different topic.
- 505 Statistical Software for Behavioral Scientists.** 3 hours.  
Prerequisites: Three hours of undergraduate statistics and graduate standing or permission of instructor.  
Develops proficiency in use of statistical software for mainframe and personal computers. Emphasis on SPSS. Data base management for the PC also addressed. Fall and Summer of each year.
- 510 Advanced Educational Psychology.** 3 hours.  
Psychology of learning. Different psychological theories, methods and techniques.
- 511 Psychology of Learning.** 3 hours.  
Theories of learning including conditioning, social learning, reinforcement, problem solving, motivation and structure of the learning situation.
- 512 Seminar in Experimental Design.** 3 hours.  
Required for all graduate students in psychology. Understanding the principles of experimental design and the application of appropriate statistical techniques. Includes the design of an experimental project.
- 513 Advanced Statistical Analysis.** 3 hours.  
Prerequisite: Psy 512 or permission of instructor.  
Advanced analysis techniques appropriate to psychological research. Emphasizes the more complex forms of the analysis of variance, the analysis of covariance, and non-parametric statistics.
- 514 Program Evaluation.** 3 hours.  
Prerequisite: Psy 512 or equivalent.  
Examination of program accountability. Emphasizes all phases of evaluation. Also covers decision making processes.
- 515 Program Evaluation Laboratory.** 1 hour.  
Corequisite: Psy 514.  
Student will conduct a program evaluation as a part of an evaluation team and write the report for dissemination to appropriate offices and/or agencies.
- 516 Advanced Study in Motivation.** 3 hours.  
Historical and present motivation theories. Particular emphasis on a current literature survey of both human and animal research.
- 519 Psychological Perspectives on Classroom Behavior.** 3 hours.  
Prerequisite: Psy 510.  
Strategies and techniques designed for coping with problem behaviors in the classroom. Covers both preventative and problem encounter measures.
- 520 Psychology of Individual Differences.** 3 hours.  
Research and theory in developmental aspects of behavior from the prenatal period to adulthood with emphasis upon individual differences.
- 521 Advanced Child Psychology.** 3 hours.  
Particular emphasis upon a critical review of current research in child development.
- 522 Advanced Adolescent Psychology.** 3 hours.  
Current research and theories in the area of adolescent psychology as they relate to physical, social, emotional, and intellectual development.
- 523 Cognitive Theory.** 3 hours.  
Information processing, thinking and cognition. Covers major theories and research techniques in the area.
- 540 Behavior Problems of Childhood and Adolescence.** 3 hours.  
The major forms of psychopathology in children and adolescents, with emphasis upon recent research, classification systems and developmental patterns. Also covers clinical and school treatment of behavior problems encountered in the school setting.
- 541 Introduction to Professional Psychology.** 3 hours.  
Roles and responsibilities of professional psychologists emphasizing the ethical, legal, and methodological issues for the master's level practitioner.
- 545 Clinical Child Psychology: Theory and Practice.** 3 hours.  
For psychology or mental health profession students desiring to work with mental health problems in children and adolescents.
- 550 Personality Theory.** 3 hours.  
Psychological principles underlying the study of personality in relation to a social environment. Topics include theories of personality, the process of socialization; of the individual, factors influencing adjustment to social environment.
- 551 Social Psychology of Organizations.** 3 hours.  
The dynamics of groups and organizations. Current theory and research in psychology of organizations.
- 552 Advanced Social Psychology.** 3 hours.  
Behavior of the individual in relation to social contexts. Topics include group dynamics, attitude formation and change, social influence processes, socialization and language use in communication.
- 560 Individual Assessment I.** 3 hours.  
Administration of the WICS, WAIS, WPPSI, BINET, and other individually administered tests used as basic tools in education, occupational guidance, clinical diagnosis.
- 561 Individual Assessment II.** 3 hours.  
Interpretation of the tests commonly used in educational, vocational guidance and clinical diagnostics. Emphasis on report writing and basic clinical practice.
- 562 Practicum in Psychological Assessment.** 1 to 3 hours.  
Corequisite: Psy 560 or 561.  
Supervised experience in the administration and interpretation of tests used in an educational or clinical setting for the diagnosis of intellectual and learning problems. (May be repeated.)
- 563 Statistics and Psychometric Theory.** 3 hours.  
Required of all graduate students in psychology. Introduction to psychometric theory. Emphasis on statistical techniques, construction and psychological measurement instruments.



- 570 Introduction to Industrial/Organizational Psychology.** 3 hours.  
Overview of the I/O discipline. Acquaints students with the major perspectives, methods, and applications in the content areas of this concentration.
- 571 Personnel Psychology.** 3 hours.  
Prerequisite: Psy 570.  
Employee selection procedures, with emphasis on methods and techniques of job analysis, interviewing, testing, etc. Direct involvement in data collection and analysis.
- 572 Organizational Psychology.** 3 hours.  
Prerequisite: Psy 570.  
Selected topics relevant to work organizations. Emphasizes current theories and research practices.
- 580 Advanced Physiological Psychology.** 3 hours.  
Anatomy of the nervous system, relationships among the components of the nervous system and psychological functioning.
- 581 Laboratory in Advanced Physiological Psychology.** 3 hours.  
Corequisite: Psy 580.  
Physiological techniques of electrical recording and electrical chemical stimulation.
- 590 Readings of Research in Psychology.** 1 to 3 hours.  
Prerequisite: Departmental permission only.  
Individual readings or research. Arrangements must be made before enrollment.
- 591 Internship in College Teaching.** 1 to 2 hours.  
Problems and methods of teaching at the college level. Students enrolled in this course will concurrently teach a course in introductory or general psychology.
- 592 Psychology Internship.** 3 hours.  
Field experience for clinical, school, industrial, or other psychologists. Required for Kentucky certification. Typically taken in the student's last semester in residence.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.
- 640 Psychopathology.** 3 hours.  
Major forms of child and adult psychopathology with emphasis upon recent research, classification systems, the modification of deviant behavior and developmental patterns of learning and motivation variables.
- 641 Clinical Interviewing and Psychotherapy I.** 3 hours.  
Selected theories and techniques of psychotherapy and counseling. Also covers group therapy, clinical topics, and professional and ethical issues.
- 642 Clinical Interviewing and Psychotherapy II.** 3 hours.  
Prerequisite: Psy 641.  
Continuation of 641 with emphasis on group, family, and marital psychotherapy.
- 643 Psychoeducational Assessment.** 3 hours.  
Prerequisites: Psy 560, 561, 564.  
Diagnostic procedures for the mentally handicapped, culturally disadvantaged, and learning disabled. Includes psychoneurological issues. Students will be exposed to

and write Individual Educational Programs (IEP).

- 645 Consultation in Educational and Mental Health Settings: Theory and Practice.** 3 hours.  
Designed to provide theory and practice to mental health professionals. Theories and methods of mental health consultation in depth.
- 660 Psychological Evaluation I.** 3 hours.  
Prerequisite: Psy 560.  
Personality diagnosis using objective and projective techniques with emphasis on current research interpretation, and communication of assessment information.
- 661 Psychological Evaluation II.** 3 hours.  
Prerequisite: Psy 660.  
A continuation of 660 with emphasis on personality measures and procedures for assessing psychological and neuropsychological disorders.
- 662 Practicum in Psychological Practice.** 1 to 3 hours.  
Supervised practice in schools, clinics, specialized training centers and hospitals. Persons preparing for careers in school or clinical psychology will enroll in 662 for a minimum of two semesters.
- 670 Equal Employment Opportunity, the Law, and Ethical Considerations.** 3 hours.  
Prerequisite: Psy 570.  
Issues relevant to providing equal employment opportunity: EEOC and FEA guidelines regarding selection practices; review of major court decisions and their implications for the conduct of selection; professional and ethical considerations in the practice of I/O psychology.
- 673 Advanced Training in Business and Industry.** 3 hours.  
Prerequisites: Psy 571, 572, or permission of instructor.  
Theories, research and methods of training needs analysis, program design, implementation, and evaluation.

**These 400-level courses may be taken for graduate credit:**

- 405G Cognitive Psychology.** 3 hours.  
Prerequisites: PSY 201 or 210 or permission of instructor.  
Overview of theory and research in human cognition, with primary emphasis on attention, memory, judgement and decision making, and problem solving. Cognition in special populations will also be covered.
- 410G Psychology of Learning.** 3 hours.  
Prerequisites: Psy 201, 210, or permission of instructor.  
Facts and principles of human and animal learning, treated in theories attempting to provide a general framework for understanding what learning is and how it takes place.
- 411G Psychology of Sensation and Perception.** 3 hours.  
Prerequisites: Psy 201, 210, or permission of instructor.  
Basic data and theories of psycho-physics, illusions and other topics fundamental to the understanding of sensory and perceptual processes.
- 412G Psychology of Motivation and Emotion.** 3 hours.  
Prerequisites: Psy 201, 210, or 410 or permission of instructor.  
Needs, desires and incentives as they influence behavior. Includes review and analysis of research on motivational processes in human and animal behavior and the

- development of motivation and emotions.
- 421G Psychology of Early Adolescence.** 3 hours.  
Developmental theories, research, and literature relating to the early adolescent. A course for students planning to meet junior high school certification requirements.
- 422G Adolescent Psychology.** 3 hours.  
Behavior and development from early adolescence to adulthood with emphasis on a critical review of research and literature in the field.
- 423G Psychology of Adult Life and Aging.** 3 hours.  
Prerequisite: Psy 100.  
Early adulthood, mid-life, and old age. Both descriptive and theoretical, the emphasis will be on contemporary psychological theories and literature, methodological issues, and the interaction of psychological, biological, social, and environmental factors in adulthood and aging.
- 430G Psychology of Women.** 3 hours.  
Nature and development of sex differences, with emphasis on understanding feminine personality, socialization, and sexuality. Includes discussion of mental health issues that concern women.
- 432G Psychology of the Gifted and Creative.** 3 hours.  
Prerequisite: Psy 100.  
Identification of gifted children and adults with emphasis on educational programs for the maximum development of giftedness.
- 440G Abnormal Psychology.** 3 hours.  
Prerequisite: Six hours in psychology.  
Forms of abnormal behavior, etiology, developmental courses, interpretations, behavioral manifestation and treatment programs.
- 441G Psychological Aspects of Alcoholism.** 3 hours.  
Prerequisites: Psy 440 and permission of instructor.  
Application of psychological theories and research to the treatment of alcoholism.
- 442G Beginning Skills in Psychological Interviewing.** 3 hours.  
Prerequisites: Six hours in Psy and permission of instructor. Psy 440 or 450 recommended.  
Paraprofessional skills for conducting structured and unstructured interviews in non-therapy settings. Emphasizes skills development but also covers some theoretical material.
- 443G Behavior Theory and Application.** 3 hours.  
Prerequisite: Psy 410, or enrollment in special education sequence.  
Theory and application of techniques for modifying behavior in clinics, hospitals, child rearing and education.
- 450G Introduction to Personality Theory.** 3 hours.  
Prerequisite: Nine hours of psychology or permission of instructor.  
Major theoretical approaches to the study of personality. Includes historical as well as contemporary theorists and avenues of analysis and concepts in the field of personality.
- 460G Methods and Research in Social Psychology.** 3 hours.  
Research methods of social psychology and examination of major research areas. Primarily for psychology majors and minors.
- 473G Training in Business and Industry.** 3 hours.  
Prerequisites: Psy 370 or Mgmt 310 and 311, or permission of instructor.  
Theories, research and methods of training needs analysis, program design, implementation, and evaluation.
- 480G Physiological Psychology.** 3 hours.  
Prerequisites: Psy 201, 210, and three hours in biology or permission of instructor.  
Physiological mechanisms which underlie behavior. Specific areas of emphasis include current research on neurological, biochemical, and sensory mechanisms which influence behavior.
- 485G Psychology of Religion.** 3 hours.  
Prerequisites: Nine hours of Psy or permission of instructor. Psy 201, 210, and 450 preferred.  
Classical theories and current research in the psychology of religion. Course will be offered once every two years. According to current course rotation it will be offered spring of even numbered years.
- 490G Special Topics in Psychology.** 3 hours.  
Faculty directed research and/or readings in psychology.
- 495G History and Systems of Psychology.** 3 hours.  
Prerequisite: Nine hours in psychology.  
Historical antecedents of contemporary psychology. Both the sequence of psychological theory evolution and personality of prominent theorists are emphasized.
- 499G Senior Seminar in Psychology.** 3 hours.  
Major concepts and issues in psychology. Directed reading, guest lectures, field trips, and/or oral reports by students are utilized.
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- DEPARTMENT OF TEACHER EDUCATION**
- TATE C. PAGE HALL**  
**ROOM 104 (502) 745-5414**
- James Becker, Head**
- Graduate Faculty**
- Professors:** J. Becker, R. Hicks, J. Koper, R. McKenzie, R. Otto, R. Panchyshyn, R. Pankratz, D. Ritter, J. Roberts, R. Roberts, H. Simmons, J. Vokurka.
- Associate Professors:** E. Counts, M. Crisp, S. Evans, J. Ferguson, F. Kersting, N. Minix, J. Pierce, A. Ruff, R. Smith, V. Stayton, M. Wallace.
- Assistant Professors:** T. Daniel, J. Etienne, K. Hatfield, B. Kacer, C. Little, J. Schliefer, B. Stallion, K. Terry

**Degrees Offered:** Master of Arts in Education, Master of Science, Specialist in Education.

**Master of Arts in Education (Elementary Education major)**

Since this program leads to a standard early grades/elementary and/or Rank II teaching certificate, applicants must (1) hold or be eligible to hold a provisional teaching certificate at the early grades/elementary level or (2) have a valid early grades conversion program on file with the Office of Teacher Admissions, Certification, and Student Teaching. (Note: Conversion program must be completed prior to or simultaneously with the M.A. in Education.)

**Option I**

This option is for candidates holding or eligible for early grades certification (K-4). This M.A. in Education degree program meets Kentucky requirements for the Standard Early Grades Certificate. The program may be planned to include a certification endorsement for reading, elementary library, exceptional child education, or gifted and talented education.

- A. Professional Education Component (12 hours):
  - (1) Required--6 hours--El Ed 503, and Rdg Ed 519.
  - (2) Restricted Elective--3 hours--Psy 510, 511 or 519.
  - (3) Restricted Elective\*--3 hours--El Ed 505, El Ed 506, El Ed 507, or El Ed 509.
- B. Specialization Component (12 hours):  
Twelve hours of advisor-approved, graduate level, subject-related courses pertinent to the certified grade level.
- C. Elective (6 hours):  
Six hours of advisor-approved, graduate level, professional education or subject-related courses.
- D. Research Tool (3 hours):  
Ed Fnd 500 (Grade of B or better required.)

\*may be waived for appropriate endorsement requirements.

**Option II**

This option is for candidates holding or eligible for elementary certification (grades 1-8, or K-8). This M.A. in Education degree program meets Kentucky requirements for the Standard Elementary Certificate. The program may be planned to include a certification endorsement for reading, elementary library, exceptional child education, gifted and talented education, or kindergarten.

- A. Professional Education Component (12 hours):
  - 1. Required: Rdg Ed 519.
  - 2. Restricted Elective (3 hours): El Ed 503, or Mge 571.
  - 3. Restricted Elective (3 hours): Psy 510; Psy 511; Psy 519, or Psy 540.
  - 4. Restricted Elective (3 hours)\*: El Ed 505; El Ed 506; El Ed 507; or Mge 544.
- B. Specialization Component (12 hours):  
Twelve hours of advisor-approved, graduate level, subject-related courses pertinent to the certified grade levels.
- C. Electives (6 hours):  
Six hours of advisor-approved, graduate level, professional education, or subject-related courses.
- D. Research Tool (3 hours):  
Ed Fnd 500 (Grade of B or better required.)

\*may be waived for appropriate endorsement requirements.

**Master of Arts in Education (Middle Grades education Major)**

Since this program leads to a standard middle grades and/or Rank II teaching certificate, applicants must (1) hold or be eligible to hold a provisional teaching certificate at the middle grades level or (2) have a valid middle grades conversion program on file with the Office of Teacher Admissions, Certification, and Student Teaching. (Note: Conversion program must be completed prior to or simultaneously with the Master of Arts in Middle Grades Education.)

Middle Grades Education is for candidates holding or eligible for middle grades certification (grades 5-8). This M.A. in Education degree program meets Kentucky requirements for the Standard Middle Grades Certificate. The program may be planned to include a certification endorsement for reading, elementary library, exceptional child education, or gifted and talented education.

- A. Professional Education Component (12 hours):
  - 1. Required--6 hours--Mge 544\*; Mge 571.
  - 2. Restricted Elective--3 hours--Psy 510; Psy 511, Psy 519; or Psy 540.
  - 3. Restricted Elective--3 hours--Rdg Ed 519; or Rdg Ed 524.
- B. Specialization Component (12 hours):  
Twelve hours of advisor-approved, graduate level, subject-related courses pertinent to the area(s) of certification.
- C. Electives (6 hours):  
Six hours of advisor-approved, graduate level, professional education, or subject-related courses.

- D. Research Tool (3 hours):  
Ed Fnd 500 (Grade of B or better required.)

\*may be waived for appropriate endorsement requirements.

**Master of Arts in Education (Secondary Education Major or Minor)**

Since this program leads to a standard secondary and/or Rank II teaching certificate, applicants must (1) hold or be eligible to hold a provisional certificate at the secondary level or (2) have a valid secondary education conversion program on file with the Office of Teacher Admissions, Certification, and Student Teaching. (Note: Conversion program must be completed prior to or simultaneously with the Master of Arts in Education.)

This M.A. in Education degree program meets Kentucky requirements for the Standard Secondary Certificate. Candidates must declare both a major and a minor (one or the other must be in secondary education). The following majors are permitted: agriculture, art, biology, business education, chemistry, communication, economics, English and allied language arts area, French, geography, German, health, history, home economics, industrial education, math, math-science area, music, physical education, psychology, reading, science area, secondary education, social science area, and Spanish.

This program permits minors in the following areas: agriculture, art, biology, business education, chemistry, communication, theatre, economics, English, folk studies, French, geography, German, health, history, home economics, industrial education, mathematics, music, physical education, physics, psychology, science area, secondary education, sociology, and Spanish.

- A. Professional Education Component (12 hours):
  1. Required Courses (9 hours): Ed Fnd 500, Sec Ed 544, and Sec Ed 580.
  2. Restricted Elective (3 hours): Psy 510, Psy 511, or Psy 519.
- B. Specialization Component (12 hours):  
Twelve hours of advisor-approved graduate level, subject-related courses pertinent to the area(s) of certification.
- C. Electives (6 hours):  
Six hours of advisor-approved, graduate level, professional education (education major) or subject-related (education minor) courses.

**Gifted and Talented Education Requirements: GTE**  
536, 537, 538, Psy 432G

**Reading Major Requirements**

- A. Professional Education, as above (9 hours)
- B. Rdg Ed 519, 520, 521, and 522 (12 hours)
- C. Non-professional education coursework,

individually prescribed (12 hours)

**Master of Arts in Education (Interdisciplinary Early Childhood Education)**

- A. Professional Education (9 semester hours)  
Ear Ch Ed 509; Ex Ch Ed 523; Ex Ch Ed 486G
- B. Specialization Courses (12 semester hours)  
Ex Ch Ed 481G; Ex Ch Ed 521; Ex Ch Ed 522;  
Ex Ch Ed 524
- C. Content Area Courses (12 semester hours)  
HEFL 577; EX ED 520; SOC WK 436G; PSY 645
- D. Research Tool (3 semester hours)  
Ed Fnd 500
- E. Prerequisites: (Students must have had the following courses or their equivalents prior to entering the master's program or take them as program deficiencies) EI ED 360; EX CH 331; EX CH ED 330; EX CH ED 516

**Master of Arts in Education (Exceptional Child Education--Trainable Mentally Handicapped)**

Since this program leads to the standard certificate for teachers of exceptional children--trainable mentally handicapped, applicants must hold a provisional certificate for teaching exceptional children who are trainable mentally handicapped and must be endorsed for elementary/middle grades classroom teaching in grades one through eight, kindergarten through four, or five through eight. Requirements are as follows:

- A. Professional Education Core:  
Ed Fnd 500, EI Ed 503, or Sec Ed 580, and Exc Ed 531.
- B. Specialization Courses:  
Exc Ed 530, 532, 534, 535, and 518.
- C. Electives:  
Nine hours of coursework, approved by the advisor, from one or more of the following areas: communication, health and safety, home economics and family living, industrial education, library science, physical education, psychology, recreation, sociology.

**Master of Arts in Education (Exceptional Child Education--Learning and Behavior Disorders)**

Since this program leads to the standard certificate for teachers of exceptional children--learning and behavioral disorders, applicants must hold a provisional certificate for teaching exceptional children with learning and behavior disorders and must be endorsed for elementary/middle grades classroom teaching in grades one through eight, kindergarten through four, or five through eight. Requirements are

as follows:

- A. Professional Education Core:  
Ed Fnd 500, EI Ed 503, or Sec Ed 580, and Exc Ed 531.
- B. Specialization Courses:  
Exc Ed 518, 530, 532, 533, and 534.
- C. Electives:  
Nine hours of coursework, approved by the advisor, from one or more of the following areas: communication, health and safety, home economics and family living, industrial education, library science, physical education, psychology, recreation, sociology.

#### Master of Science (Communication Disorders)

This program is designed to prepare professional speech pathologists to meet the needs of the communicatively handicapped in hospitals, clinics, nursing facilities, and schools. It is also designed to meet the academic and clinical requirements of the American Speech Language and Hearing Association, leading to national certification and state licensure.

Admission to the program requires an undergraduate grade point average of 3.0 for the final 60 semester hours and a minimum combined score (verbal and quantitative) of 800 on the General Test of the GRE. Students without an undergraduate background in communication disorders will complete prerequisites in the area that are required by the National Association's academic standards. A strong academic background in psychology and/or gerontology is desirable.

Thirty-six semester hours are required for both the thesis and non-thesis option. Specific course requirements are: Exc. Ed. 504, and 509. Twenty-four hours must be selected, with advisor approval, from the departmental course listing. Additionally, the student must complete 350 clock hours of clinical experience at the graduate level and clinical externship during the final semester.

The research tool requirement may be met by successful (grade A or B) completion of Ed Fnd 500, or as otherwise specified by the student's major advisor and the graduate office.

During the final semester of coursework, the candidate must pass the written comprehensive examination. Students are also encouraged to take the national certification examination during the final semester.

Two options are available within the structure of this degree program. Both program options meet academic and clinical requirements for the American Speech Language and Hearing Association, leading to national certification and state licensure.

Those selecting Option A must also complete

Exc Ed 330; Psy 100, 310; and EI Ed 250, or Sec Ed 271.

**Option A** is designed to prepare professional speech pathologists to meet the needs of school-age children and leads to provisional teacher certification in exceptional child education--speech and communication disorders. Course requirements are as follows:

Ed Fnd 500; Exc Ed 503; Exc Ed 504; Exc Ed 505; Exc Ed 506; Exc Ed 508; Exc Ed 509; Exc Ed 510; Exc Ed 512; Exc Ed 590; Exc Ed 591.

**Option B** is designed to prepare professional speech pathologists to meet the needs of the communicatively handicapped in hospitals, clinics, nursing facilities, and residential schools. Course requirements are as follows:

Ed Fnd 500; Exc Ed 489G; Exc Ed 502; Exc Ed 504; Exc Ed 506; Exc Ed 507; Exc Ed 508; Exc Ed 509; Exc Ed 510; Exc Ed 511; Exc Ed 590; Exc Ed 591.

#### Master of Science (Library Science)

This program is designed for those who are interested in the field of school media librarianship.

In addition to meeting the general graduate studies admission requirements, six hours of approved prerequisite work in library science from LME 288, 401, 406, 408, and 445, or their equivalents is required. The prerequisite courses may be taken concurrently with graduate coursework. Students with media library experience equivalent to these prerequisite courses may, with the approval of the department head, take a qualifying examination to have these courses waived. Applicants who have a grade point average of 3.0 and a score of 700 (verbal and quantitative combined) on the General Test of the GRE may be admitted. Students having less than the required grade point average may be considered for admission provided their combined (verbal and quantitative) General Test score is above 800.

Both Plan A (thesis) and Plan B (non-thesis) are available. Up to six hours of the required 30 hour minimum may be selected from related fields such as literature, mass communications, history, or education. The research tool requirement shall be met by successful (grade A or B) completion of Ed Fd 500--Research Methods--or its equivalent.

Students may select either of the two program options, but a requisite core of six hours must be taken from the following or their equivalents:

LME 502, or 401G - 3 hours  
LME 445G or 545 - 3 hours

The remaining 24 hours of coursework will be

selected in consultation with the advisor and in consideration of the student's academic work and career goals.

**Specialist Degree in Education (Elementary Education, Secondary Education)**

This post-master's degree provides opportunity for the advanced graduate student to improve the foundations and competencies for teaching. The program may also be structured to meet Rank I requirements under Kentucky's minimum foundation program of education. The following emphases or specializations are available to the elementary education major; reading, general curriculum and instruction, and gifted and talented education. Available concentration areas for secondary education majors are science, social science, language arts, and vocational education.

In addition to meeting the admission requirements of the Graduate Studies Office, applicants must meet the following departmental requirements:

1. Three years (two years for secondary education majors) of teaching experience at the appropriate level. (For elementary education majors, up to two years of experience may be waived in favor of equivalent experience)
2. Four letters of recommendation: two from graduate faculty members and two from professional associates in administrative and/or supervisory roles.

**NON-DEGREE PROGRAMS**

Students wishing to pursue one of the following programs must make application to the Office of Graduate Studies. Upon completion of the program, individuals must contact the certification officer in the College of Education. That official then certifies to the State Department of Education that rank requirements have been met.

**Rank II Non-Degree Programs**

The Department of Teacher Education provides the planned Fifth Year Program for students who do not meet the admission requirements of a degree program or who want greater flexibility with regard to time allowed for completion, transfer limitations, and selection of courses than is permitted in a degree program.

Although the Fifth Year Program does not result in the master's degree nor standard certification, it does result in Rank II salary classification in Kentucky, renews the provisional certificate, and permits entry into a Rank I teacher program.

**Guidelines**

1. Thirty-two (32) hours of upper division undergraduate and graduate courses must be completed.
2. At least 18 of the required hours must be taken at Western Kentucky University.
3. A grade point average no less than that for undergraduate certification (2.5) shall be required.
4. A minimum of 12 hours must be in professional education and a minimum of 12 hours in cognate areas.
5. At least 18 hours must be in graduate level courses and all professional education courses must be at the graduate level.
6. Coursework taken by correspondence is not accepted.

**Rank II (Elementary Education: K-4, 5-8, 1-8)**

The following courses and their distribution would meet requirements for a Fifth Year Program.

**Required:**

EI Ed 503 and Rdg Ed 519 (K-4)  
MGE 544\* and MGE 571 (5-8)  
Rdg Ed 519 and EI Ed 503 or MGE 571 (1-8)

Three semester hours from: Psy 510, 511, or 519 (K-4)  
Psy 510, 511, 519, 540 (5-8; 1-8)

Three semester hours from: EI Ed 505\*, 506\*, 507\*, 509\* (K-4)  
Rdg Ed 519, 524, (5-8)  
EI Ed 505\*, 506\*, 507\*, MGE 544\* (1-8)

Twelve semester hours from specialization courses selected in consultation with advisor (K-4; 5-8; 1-8)

Eight semester hours of electives selected in consultation with advisor (K-4; 5-8; 1-8)

\*may be waived for specific endorsement courses

**Rank II (Secondary Education)**

Note: This program is to be followed by students admitted to the Fifth-Year Program January 1988, and thereafter.

The professional education component consists of (A) required core courses, (B) elective core courses, and (C) general electives. Students are required to complete a minimum of 12 semester hours of core courses. The elective core courses and the general elective courses must be selected in consultation with an assigned advisor.



- A. Required Core Courses--9 hours required:  
Sec Ed 544; Sec Ed 580; Psy 510; Psy 511
- B. Elective Core Courses--3 hours required:  
Ed Fnd 576; Ed Fnd 577; Ed Fnd 500; Psy 519
- C. Education Electives--students may select up to 8 hours from this section or from section B. The total education hours shall not exceed 20 hours:  
Sec Ed 444G; Sec Ed/LME 445G; Sec Ed 484G; Sec Ed 528-542; Sec Ed 545; Sec Ed 570; Rdg Ed 524; Rdg Ed 519; Sch Ad 585; Sch Ad 598; Cns Ed 551; Cns 566 GTE 536; GTE 537; MGE 421G; MGE 450G; Psy 422G; Psy 421G; LME 448G; Ed Fnd 667; Exc Ed 516; MGE 571.  
(A maximum of 9 hours Independent Study-Workshops may be included but must be distributed 6 in one area, 3 in another area.)
- D. Fifth-Year Specialization Component  
Students are required to complete a minimum of 12 semester hours in the specialization component. Should the student so choose, it is possible to complete up to 20 hours in the specialization component.

The following guidelines are used in selecting appropriate courses:

1. The Fifth-Year student must meet with the assigned advisor in the appropriate specialization area to select courses for this component of the Fifth-Year program.
2. The minimum 12 hours must come from either the student's teaching major or teaching minor or a closely related area.
3. A closely related area is defined as a subject that is part of the same secondary school curriculum area as the major or minor.
4. A student who completes more than 12 semester hours in the specialization component must select the additional 3 to 8 hours in accordance with the guidelines above.

### Rank I Programs

The Department of Teacher Education offers Rank I Programs for Elementary and Secondary Teachers which lead to the Rank I salary classification.

#### General Guidelines:

1. Rank I classification shall require the completion of either (a) 30 semester hours approved graduate level credit in addition to the requirements for Rank II classification, or (b) 60 semester hours approved graduate level credit including a master's degree.
2. The student's program shall be planned in consultation with the advisor and shall be

related to the professional needs of the individual.

3. A minimum of 15 semester hours must be in courses open only to graduate students.

4. The student shall maintain a B standing, and no credit shall be given for a course grade lower than C.

5. At least 15 of the required hours shall be taken at Western Kentucky University. The remaining hours may be taken, upon approval of the college advisor and the certification officer, at other institutions provided the grade is A or B.

A minimum of 24 hours of the total 60 (62 when based upon Rank II classification) must be in academic work apart from professional education. These hours shall be in the candidate's major or minor, or area of preparation, or in supporting courses from other disciplines as approved by this institution.

### Rank I--Teacher's Program

#### Rank I (Elementary Education)

The following courses and their distribution would meet requirements for Rank I classification. The student must complete a total of sixty semester hours of graduate credit including the master's degree or thirty semester hours of graduate level credit above the Rank II classification.

- A. Nine semester hours: El Ed 603; 604; Exc Ed 516.
- B. Six to nine semester hours: El Ed 505; 506; 507; 544; 545; 570W, 508; 509; 598; Rdg Ed 519; 523; GTE 536; 537; 538.
- C. Three semester hours may be elected from: Cns Ed 551, 565; Ed Fnd 576; 577; Sch Ad 677; 585
- D. Twelve semester hours from relating non-professional education courses selected in consultation with advisor.

Each program must be individually planned in consultation with the student's advisor.

#### Rank I (Secondary Education)

1. Required Professional Courses - 6 hours required: Exc Ed 516; Sec Ed 604.
2. Related Professional Courses - 6 to 12 hours required

(Students may substitute courses in their undergraduate teaching major or minor or in an

area for which their certificate has been/will be endorsed in place of courses in this area. This should be done only after consulting with your advisor.)

A. Select three to six hours from the following courses in consultation with your advisor:

Sec Ed 444G; MGE 450G; Sec Ed 528; Sec Ed 544; Sec Ed 598, 570W; Sec Ed 580; GTE 536; Psy 519.

B. Select additional courses from either Section A or B in consultation with your advisor:

Sec Ed/LME 445G; GTE 537; Cns 551; Cns 566; Sch Ad 585; Sch Ad 598; Sch Ad 677; Ed Fnd 500; Ed Fnd 576; Ed Fnd 577; Rdg Ed 519; Rdg Ed 524; MGE 571,421G; Psy 590; Psy 421G-422G; LME 488G.

3. Related Non-Professional Education Courses - 12 to 18 hours required: Select courses in consultation with your advisor.

Note: There is a limit of 9 hours workshop and Independent Study credit that may be used on a Rank I program. Only three of those 9 hours may be one credit hour courses. A total of 24 hours non-professional education courses is required for Rank II and Rank I combined.

## Graduate Courses in Teacher Education

### Business Education (BE)

- 535 Survey of Distribution.** 3 hours.  
Business activities involved in moving goods from production to consumption; emphasis on the role of marketing in the American economy.
- 540W Consumer Financial Problems.** 3 hours.  
Basic elements of money management and the relationship of these elements to family units and corporate citizenship.
- 544 Current Problems in Business Education.** 3 hours.  
Current problems and significant research. Also offered as independent study or workshop. (May be repeated by Business Education Majors.)
- 545 Principles of Business Education.** 3 hours.  
Principles, practices, problems, and philosophy includes standards, guidance, and curricula.
- 560 Office Systems Institute.** 3 hours.  
Intensive institute in the content subject matter of undergraduate major in office systems.
- 575 Administration and Supervision in Business Education.** 3 hours.  
Roles and functions of administration and supervision at all educational levels. Includes vocational education laws and their relationship to business education.

The following 400-level courses may be taken for graduate credit:

**463G Information Resource Management.** 3 hours.

**471G Office Internship.** 3 hours.

**485G Office Employee Training.** 3 hours.

### Elementary Education (EI Ed)

- 503 Organization of the Elementary School Curriculum.** 3 hours.  
Principles and practices in elementary school curriculum construction. Emphasis on forces affecting curriculum, current innovations, and trends.
- 505 Advanced Materials and Methods in Modern Mathematics for Elementary Teachers.** 3 hours.  
Kindergarten through grade eight. Involves the conceptual, the computational, and application aspects of mathematics with emphasis on the structural aspects of mathematics and on the "why" of arithmetic computation.
- 506 Seminar in Elementary School Science.** 3 hours.  
Advanced methods and materials for teaching science in the elementary school.
- 507 Advanced Materials and Methods in Social Studies.** 3 hours.  
Concepts and objectives, classroom organization for instruction, current strategies in teaching content, and materials available.
- 508 Foundations and Organization of Early Childhood Education.** 3 hours.  
Emphasizes the importance of appropriate early learning experiences including philosophical, theoretical, and empirical bases of instruction.
- 509 Advanced Methods and Materials for Early Childhood Education.** 3 hours.  
Examination of alternative instructional strategies and support materials appropriate for early learners in language arts-reading, mathematics, social studies, and science.
- 543 Interactive Teaching Skills.** 3 hours.  
Opportunity for elementary and secondary teachers to develop interactive teaching skills by selecting and completing two of four minicourses developed by Far West Laboratory for Educational Research and Development.
- 544 Classroom Teaching Strategies.** 3 hours. Examination of alternative teaching strategies related to four major goal attainment areas: fact/process retention, information processing, social interaction, and personal development.
- 545 Investigations in Classroom Teaching.** 1 to 3 hours.  
Opportunity for elementary teachers to engage in the concentrated study of specific problems and/or the development of specific skills related to effective classroom instruction.
- 570 Workshop—Elementary Education.** 3 hours.
- 598 Organization and Supervision of Student Teaching.** 3 hours.  
Philosophy, theory and practices essential for an effective student teaching program. Covers state and NCATE standards for teacher education, personal and professional relationships and evaluation of student teachers.

599 **Thesis Research and Writing.** 6 hours.

600 **Maintaining Matriculation.** 1 to 6 hours.

603 **Advanced Seminar Elementary Curriculum.** 3 hours.  
Strategies and models to assist the elementary classroom teacher in assuming an active role in total elementary school curriculum development.

604 **Management of the Learning Environment I.** 3 hours.  
The first of a two-course sequence designed to enable elementary teachers to utilize Mastery Learning strategies and related teaching skills to increase student achievement and improve student attitudes toward learning.

605 **Management of the Learning Environment II.** 3 hours.  
The second of a two-course sequence designed to enable elementary teachers to utilize Mastery Learning strategies and related teaching skills to increase student achievement and improve student attitudes toward learning.

699 **Specialist Project.** 6 hours.

700 **Maintaining Matriculation.** 1 to 6 hours.

**The following 400-level Ed courses may be taken for graduate credit:**

420G **Reading in the Primary Grades.** 3 hours.  
Prerequisite: Ed 320  
Principles and methodologies currently in use at the primary (K-4) school levels.

445G **Introduction to Educational Technology.** 3 hours.  
Instruction and laboratory experiences in the basic theory and application of educational technology to the design, production, evaluation, and utilization of various media. Cross-listed with LME 445G.

### **Exceptional Child Education (Ex Ch Ed)**

502 **Motor Speech Disorders.** 3 hours.  
The etiologies, communication characteristics, appraisal and treatment of motor speech disorders.

503 **Advanced Diagnostic Procedures in Speech Pathology.** 3 hours.  
Prerequisites: Exc Ed 481 or 481G, and 485 or 485G.  
Expansion of diagnostic theory and procedures utilized in clinical settings by the certified speech pathologist.

504 **Seminar in Language Disorders of Childhood.** 3 hours.  
Prerequisites: Exc Ed 481 or 481G, and 483 or 483G, or permission of instructor.  
Language development disorders of children. Characteristics of normal as well as delayed and disrupted language patterns and their differential diagnosis.

505 **Oral Facial Anomalies.** 3 hours.  
Prerequisite: Exc Ed 481/481G.  
Etiology, diagnosis, and management of speech and language dysfunctions associated with cleft palate and cerebral palsy.

506 **Dysfluency.** 3 hours.  
Prerequisite: Exc Ed 481 or 481G.  
Research review in the field of dysfluency, including cluttering and stuttering. Emphasis on etiology and clinical

management of all fluency disorders.

507 **Dysphasia.** 3 hours.  
Prerequisite: Exc Ed 481 or 481G.  
Dysphasia—including symptomatology, etiology, differential diagnosis, and training, with primary emphasis on adult problems.

508 **Voice Disorders.** 3 hours.  
Prerequisites: Exc Ed 481 or 481G, and 484 or 484G.  
Diagnosis and remediation techniques of voice disorders in childhood and adulthood. Rehabilitation of the laryngectomized client, with emphasis on the development of esophageal speech or the use of the electrolarynx as a substitute voice.

509 **Speech Science.** 3 hours.  
Contemporary research in the area of speech science.

510 **Seminar in Speech Pathology.** 3 hours.  
Current issues that influence the profession of speech pathology; local, regional, and national issues that affect the speech pathologist's role as a service provider.

511 **Neurology of Speech and Language.** 3 hours.  
Neuroanatomy and neurophysiology as it applies to normal reflex, motor and perceptual speech, and language behavior. Emphasis given to test procedures for evaluation.

512 **Seminar in Phonology.** 3 hours.  
Application of phonology theory and development to the treatment of speech/language disabled persons.

515 **Pediatric Audiology.** 3 hours.  
Methods and procedures for evaluating hearing loss in young children and infants.

516 **The Exceptional Child: Perspectives and Issues.** 3 hours.  
Characteristics, needs, and problems of children who are atypical in the mental, physical, sensory, emotional, and social areas of development.

518 **Seminar: Problems in Special Education.** 3 hours.  
Prerequisite: Exc Ed 516.  
Issues in special education. Classroom experiences to develop awareness and sensitivity to educational needs.

520 **Organizing Programs for Early Childhood Special Education.** 3 hours.  
Prerequisites: HeFl 577, Ex Ch Ed 481G.  
Rationale for ECSE (0-5), service delivery options, teaming issues, and atypical development specific to sensory, physical and mental impairments. Thirty hours field experiences required.

521 **Assessment in Early Childhood Special Education.** 3 hours.  
Prerequisites: HeFl 577, Ex Ch Ed 481, Ex Ch Ed 520.  
Assessment process specific to children 3-5 who have or are at risk for handicaps and their families will be examined. Thirty hours of field experiences are required.

522 **Family-Focused Services.** 3 hours.  
Prerequisites: HEFl 577, Ex Ch Ed 481G, Ex Ch Ed 520.  
Students apply family systems theory to family assessment, the development of family plans, and the implementation-evaluation of family-focused services.

Thirty hours of field experiences are required.

- 523 Curriculum/Methods In Early Childhood Special Education.** 3 hours.  
Prerequisites: Ex Ed 521, 522  
Selection/development of curricula materials for and planning, implementation, and evaluation of intervention with children 3-5 at risk for handicaps.
- 524 Internship In Early Childhood Special Education.** 3 hours.  
Prerequisites: Ear Ch Ed 509, Ex C Ed 486G, Ex Ch Ed 523. With the advisor's permission 509, 486G or II523 may be taken concurrently.  
Supervised work with children who have handicaps or who are at risk for handicaps and their families.
- 530 Advanced Assessment Techniques.** 3 hours.  
Alternatives to global assessment of various exceptional conditions in educational planning for exceptional children. Emphasizes use and construction of criterion measures and critical analysis of test components.
- 531 Advanced Prescriptive Teaching.** 3 hours.  
Adapting the learning environment to the learner. The affective, cognitive, and psychomotor aspects of a specialized learning environment.
- 532 Intervention Strategies with Parents.** 3 hours.  
Interpreting programs for handicapping conditions to maximize family involvement. Emphasizes the attitudes, skills, and knowledge taught in the educational program.
- 533 Seminar: Curriculum for Learning and Behavior Disorders.** 3 hours.  
Development, adaptation, and evaluation of curricula, methods, materials, and resources. Implementing and evaluating instructional programs.
- 534 Seminar: Research In Exceptional Child Education.** 3 hours.  
Non-categorical and discrete areas of exceptionalities. Emphasis on an independent research project.
- 535 Advanced Curriculum for the Moderately Retarded.** 3 hours.  
Curricula and programs for the moderately retarded. Focuses on a continuum of services philosophy for the handicapped.
- 580 Diagnostic Procedures In Speech Disorders.** 1 hour.  
Identification of speech disorders and treatment available.
- 589 Special Topics In Communication Disorders.** 1 to 3 hours.  
Independent investigation of special topics.
- 590 Clinical Internship In Speech Pathology.** 1 hour.  
Advanced, supervised, clinical practicum. Clinical experience with the more acute communication disorders. Must be repeated for a total of three (3) hours.
- 591 Clinical Externship.** 1 to 6 hours.  
Prerequisite: Permission of instructor.  
Course design allows the student to obtain on-site experience in a variety of settings including school, hospitals, rehabilitation facilities, nursing homes, and home health agencies.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.
- 620 Seminar in the Administration of Special Education.** 3 hours.  
Current trends and issues in the administration and supervision of special education programs. Cross-listed with EDAM 620.
- 625 Practicum in the Administration of Special Education.** 3 hours.  
Supervised practice in educational organizations for persons preparing to become a Director of Special Education. Cross-listed with EDAD 625.
- 630 Special Education Law and Finance.** 3 hours.  
Comprehensive study of existing school law codes for special education; budgeting and financial accounting for local, state and federal monies; and, grant writing and reporting.
- The following 400-level Ex Ch Ed courses may be taken for graduate credit:**
- 405G Phonetics.** 3 hours.  
Cross-listed with Eng. 405G
- 431G Language Intervention with Handicapped Children.** 3 hours.  
Prerequisites: Exc Ed 330, 331, 333, 430, 432.  
Overview of language development, with emphasis on the educational remediation of language disorders of the handicapped. Utilization of methods and materials that foster language development.
- 460G Special Problems.** 1 to 3 hours.  
Investigation of a special problem from an area of individual interest.
- 481G Speech and Language Development.** 3 hours.  
Normal speech and language development in preschool and school age children, including concomitant development of cognition and socialization.
- 482G Audiology.** 3 hours.  
The anatomy of hearing, causes of loss of hearing, and introduction to the methods of testing, analysis, and rehabilitation of people of all ages with hearing loss.
- 483G Articulation Disorders.** 3 hours.  
The etiology, evaluation, and management of articulatory disorders in children and adults.
- 484G Speech Anatomy and Physiology.** 3 hours.  
Structures and functions which comprise the speech mechanism and its relation to the production and development of speech and language.
- 485G Introduction to Diagnostic Procedures in Communication Disorders.** 3 hours.  
Theory and utilization of the most common screening and diagnostic techniques in speech pathology. Evaluation procedures for all communicative dysfunctions.
- 486G Language Disorders.** 3 hours.  
Identification, diagnosis, evaluation, and treatment techniques to be used with language disorders - specifically, aphasia and delayed language problems.

**487G Aural Rehabilitation.** 3 hours.  
Principles and procedures of communication and amplification systems for the hearing impaired.

**488G Augmentative Communications.** 3 hours  
Prerequisite: Exc Ed 486G  
The etiology, evaluation, and design of various augmentative devices for communicatively impaired individuals.

**489G Geriatric Communication Disorders.** 3 hours.  
Prerequisites: Biol 131, HL 443, or permission of instructor.  
Causes, symptoms, and treatment of speech, language, and hearing disorders in the aged population.

### Gifted and Talented Education (GTE)

**536 Nature and Needs of Gifted, Creative and Talented Students.** 3 hours.  
Terminology, theories, issues and general approaches in educating gifted, creative, and talented young people.

**537 Curriculum, Strategies, and Materials for Gifted Students.** 3 hours.  
The curriculum and the learning environment in meeting the unique and advanced needs of gifted students. Strategies particularly suitable for the gifted.

**538 Practicum for Teachers of Gifted Students.** 3 hours.  
Prerequisites: GTE 536, 537, and Psy 432G. Supervised experiences to integrate the knowledge and skills needed to plan, implement, and evaluate effective learning experiences for gifted, creative, and talented students.

### Library Media Education (LME)

**502 The Library in Society.** 3 hours.  
Types of libraries and their history, laws, standards, and inter-cooperation. Librarianship as a career, professionalism and the freedom to read.

**509 Investigations in Library Science.** 3 to 6 hours.  
Prerequisite: 18 hours of LME, Ed Fnd 500, or the equivalent, and permission of graduate advisor.  
Independent investigation under the direction of a faculty member.

**518 Advanced Children's Literature.** 3 hours.  
Materials available to meet the needs of children including outstanding authors, illustrators, topical issues, and the reviewing of children's books.

**519 Special Topics.** 3 hours.  
Special topics in the field of media services. May be repeated once with a different topic.

**545 Production and Instructional Media.** 3 hours.  
Instruction and laboratory experience in advanced production of graphics, photographic, and audio media products with emphasis on media design. Requires production of instruction medium for course project.

**547 Instructional Technology.** 3 hours.  
Basic principles of instructional prototype development with application of currently accepted instructional system audio media, graphics, and CAI programs.

**590 Field Experiences.** 1 to 6 hours.

Guided experience and reading on the design, organization, and administration of media programs; activity log, field visits, projects and evaluation conferences.

**599 Thesis Research and Writing.** 6 hours.

**600 Maintaining Matriculation.** 1 to 6 hours.

**These 400-level LME courses may be taken for graduate credit:**

**401G Library Organization and Administration.** 3 hours.  
Organization and administration of media for access and use; circulation and other library records; maintenance of the media collection; an service to patrons. Field trips may be required.

**406G Classification and Cataloging.** 3 hours.  
Classification, descriptive cataloging, main entries, added entries, shelf list, and filing. Laboratory sessions.

**407G Literature for Young People.** 3 hours.  
Selection and evaluation of materials, reading guidance, and programming for young people—adolescence through young adult.

**408G Reference and Bibliography.** 3 hours.  
Study of bibliographies, indexes, dictionaries, encyclopedias, yearbooks, almanacs, directories, atlases, gazettes, and handbooks.

**409G Selected Topics in Library Science.** 1 to 3 hours.  
A problematic study under the direction of a faculty member.

**410G Storytelling.** 3 hours.  
Storytelling in work with children, the literature; criteria in selection of materials; practice in oral communication.

**411G Creative Experiences for Elementary Children.** 3 hours.  
Experiences in creative expression; creative play acting, puppetry, creative writing, shadowplays, creative use of audiovisual equipment and materials.

**445G Introduction to Educational Technology.** 3 hours.  
Instruction and laboratory experiences in the basic theory and application of educational technology to the design, production, evaluation, and utilization of various media. Cross-listed with El Ed 445G, and Sec Ed 445G.

**448G Microcomputer Applications in Education.** 3 hours.  
Uses of microcomputers in instruction and instructional management. Emphasis on evaluation and utilization of appropriate software and related hardware.

**475G Workshop in Library Science.** 1 to 3 hours.  
One, two, and three week workshops designed primarily for practicing librarians.

### Middle Grade Education (MGE)

**544 Classroom Teaching Strategies.** 3 hours.  
Cross-listed with El Ed 544.

**545 Investigations in Classroom Teaching.** 1 to 3 hours.  
Opportunity for middle school teachers to engage in concentrated study of specific problems and/or

development of specific skills related to effective classroom instruction.

- 570 Workshop in Middle School Education.** 3 hours.  
Activity-centered on a relevant area of study.
- 571 Middle School Curriculum.** 3 hours.  
Examination of programs designed for the young adolescent. Functions, organizations, planning, and evaluation of the curriculum. Includes special curricular areas.
- 598 Organization and Supervision of Student Teaching.** 3 hours.  
Philosophy, theory and practices essential for an effective student teaching program. Covers state and NCATE standards for teacher education, personal and professional relationships and evaluation of student teachers.

**The following 400-level courses may be taken for graduate credit:**

- 421G Reading in the Middle Grades.** 3 hours.  
Prerequisite: Ed 220.  
Principles and methodologies currently in use in the middle grades (5-8) emphasizing reading instruction in the content areas.
- 444G Reading in the Secondary School.** 3 hours.  
Cross-listed with Sec Ed 444G.
- 445G Introduction to Educational Technology.** 3 hours.  
Cross-listed with LME 445G.
- 450G Foundations of Middle Grades Instruction.** 3 hours.  
Philosophy, development, organization, and curriculum of middle grades education and introduces generic teaching skills related to effective teaching.

### **Reading Education (Rdg Ed)**

- 519 Foundations of Reading Instruction.** 3 hours.  
Analysis of the reading process with emphasis on the psychological and physiological foundations of the reading act.
- 520 Clinical Diagnosis of Reading Disabilities.** 3 hours.  
The nature and causes of reading disabilities and investigation of general and specific principles and approaches to diagnosis. Actual case studies using both group and individual tests in diagnosis.
- 521 Correction of Reading Difficulties (Practicum).** 3 hours.  
Instructional techniques for use with individuals or groups involved in remedial reading instruction; materials and procedures; clinical experiences with remedial students.
- 522 Investigations in Reading.** 1, 2, or 3 hours.  
Maximum total credit allowed: 3 hours.  
Individual investigation of the research and descriptive literature in the field of reading.
- 523 Diagnostic Reading Procedures for Classroom Teachers.** 3 hours.  
Emphasizes practical methods of reading appraisal, diagnostic procedures, and materials essential for developing teaching strategies in reading instruction.

- 524 Teaching Reading Skills in the Content Areas.** 3 hours  
Reading and study skills strategies and techniques to increase student achievement in content-area classes.

- 624 Seminar in Reading Problems.** 3 hours.  
Covers research and descriptive literature related to specific reading problems.

### **Secondary Education (Sec Ed)**

- 528 Seminar in the Teaching of Secretarial Subjects.** 3 hours.  
Materials, methods, techniques, and devices for teaching typewriting, shorthand, and the related skilled subjects. Review and application of research findings to this area.

- 529 Seminar in the Teaching of Bookkeeping and Basic Business.** 3 hours.  
Purposes, materials, methods, and techniques for teaching bookkeeping and basic business. Review and application of research findings to this area.

- 530 Seminar in English Education.** 3 hours.  
Prerequisite: Permission of instructor.  
Current methods and materials for junior and senior high school English courses, research and professional trends.

- 531 Seminar in Art Education.** 3 hours.  
Prerequisite: Permission of instructor.  
Curricular trends in art education; methods and materials for teaching and supervising art in the public schools.

- 532 Seminar in Foreign Language Education.** 3 hours.  
Prerequisite: Permission of instructor.  
Trends in foreign language education methods and materials for teaching a foreign language at the secondary and advanced levels of instruction.

- 533 Seminar in Industrial Arts Education.** 3 hours.  
Prerequisite: Permission of instructor.  
Includes historical development, exploration of curricular trends and innovations, methods and materials of teaching, and current research and problems related to teaching industrial arts.

- 534 Seminar in Mathematics Education.** 3 hours.  
Prerequisite: Permission of instructor.  
Covers newer concepts in curriculum and methods of instruction, current research and problems in mathematics education.

- 535 Seminar in Music Education.** 3 hours.  
Historical, philosophical and psychological foundations of music education; application of the principles of education to the music program. Emphasis on current trends in education thought and their implications for instruction, supervision, administration, and evaluation in music education.

- 536 Seminar in the Teaching of Physical Education.** 3 hours  
Traditional and recent techniques, methods and knowledge in practical application of scientific principles to the teaching of physical education and the coaching of sports and games. Investigation in specific problems through lectures, discussion groups, demonstrations, and use of audiovisual aids.

- 537 Seminar in Science Education.** 3 hours.  
Prerequisite: Permission of instructor.

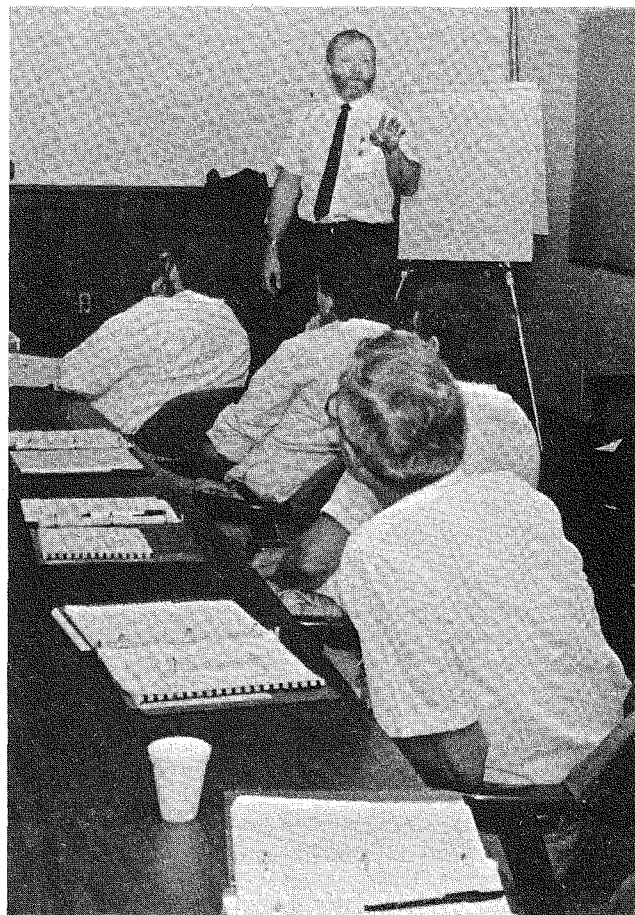


Includes the history and comparative study of science teaching, curriculum and course content changes, materials available, evaluation, methods in science teaching, professional organizations, and research in science education.

- 538 Seminar in Social Studies Education.** 3 hours.  
Prerequisite: Permission of instructor.  
Covers newer concepts in curriculum and methods of instruction as well as current research in social studies education.
- 539 Seminar in Agriculture Education.** 3 hours.  
Current problems in the organization, teaching supervision, administration, and evaluation of agricultural education programs. Investigation, papers, and reports.
- 540 Seminar in Home Economics Education.** 3 hours.  
Prerequisite: HE 572, or consent of instructor.  
Current trends in family life education with emphasis on individualized instruction, team teaching and audiovisual aids and their use in improved learning.
- 542 Seminar in Speech Education.** 3 hours.  
Includes historical development, exploration of curricular trends and innovations and current research and problems.
- 543 Interactive Teaching Skills.** 3 hours.  
Cross-listed with Ei Ed 543.
- 544 Classroom Teaching Strategies.** 3 hours.  
Cross-listed with Ei Ed 544.
- 545 Investigations in Classroom Teaching.** 1 to 3 hours.  
Opportunity for secondary teachers to engage in the concentrated study of specific problems and/or the development of specific skills related to effective classroom instruction.
- 570 Workshop - Secondary Education.** 3 hours
- 580 The Curriculum.** 3 hours.  
Philosophy, principles and practices of curriculum improvement.
- 598 Organization and Supervision of Student Teaching.** 3 hours.  
Philosophy, theory and practices essential for an effective student teaching program. Covers state and NCATE standards for teacher education, personal and professional relationships and evaluation of student teachers.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.
- 604 Management of the Learning Environment I.** 3 hours.  
The first of a two-course sequence designed to enable secondary teachers to utilize Mastery Learning strategies and related teaching skills to increase student achievement and improve student attitudes toward learning.
- 699 Specialist Project.** 6 hours.
- 700 Maintaining Matriculation.** 1 to 6 hours.

The following 400-level Sec Ed courses may be taken for graduate credit:

- 444G Reading Instruction in Junior and Senior High Schools.** 3 hours.  
Principles psychology and methodologies for teaching both the general and specialized reading skills in the secondary grades.
- 445G Introduction to Educational Technology.** 3 hours.  
Instruction and laboratory experiences in the basic theory and application of educational technology to the design, production, evaluation, and utilization of various media. Cross-listed with LME 445G.
- 470G Methods in Teaching Vocational Agriculture.** 3 hours.  
Course organization, methods, farming programs, employment training, and Future Farmers of America activities.
- 484G Methods and Materials Teaching English as a Second language.** 3 hours.  
Prerequisites: Eng 469/469G, and one linguistics course. Develops skills, procedures, and strategies for teaching and utilizing commercial materials for the teaching of English as a second language. Cross-listed with Eng 470.



## **COLLEGE OF SCIENCE, TECHNOLOGY, AND HEALTH**

**Charles E. Kupchella, Dean**

### **DEPARTMENTS**

**Agriculture**

**Biology**

**Chemistry**

**Computer Science**

**Geography and Geology**

**Industrial Technology**

**Mathematics**

**Physics and Astronomy**

**Public Health**

### **DEGREES OFFERED**

**Master of Science** (Agriculture, Biology, Chemistry, City and Regional Planning, Computer Science, Geography, Health, Mathematics)

**JOINT DOCTORAL** (With University of Louisville)

**Doctor of Philosophy** (Aquatic Biology, Fossil Fuel Chemistry)

**Majors and Minors Offered Under the Master of Arts in Education**

**Agriculture**

**Biology**

**Chemistry**

**Geography**

**Health**

**Industrial Education**

**Mathematics**

**Mathematics-Science** (major only)

**Physics** (minor only)

**Science Area** (major only)

**Major Offered Under the Specialist in Education**

**Vocational Agriculture**



## DEPARTMENT OF AGRICULTURE

ENVIRONMENTAL SCIENCE AND  
TECHNOLOGY BUILDING  
ROOM 269 (502) 745-3151

Luther B. Hughes, Jr., Head

## Graduate Faculty

Professors: E. Gray, L. Hughes Jr., R. Johnson, G. Jones, R. Schneider, J. Worthington

Associate Professors: A. Bedel, D. Coffey, J. Martin, D. Stiles

Assistant Professor: L. Brown

**Degrees Offered:** Master of Science in Agriculture, Master of Arts in Education (Agriculture major or minor), Specialist in Education (for secondary teachers in the area of vocational agriculture).

## Master of Science in Agriculture

Applicants for this degree should have an undergraduate major or area of concentration in agriculture or a related science. Persons admitted with a non-agriculture undergraduate degree may be required to complete pertinent undergraduate courses in agriculture, at the discretion of the departmental graduate committee. Admission requirements are a minimum overall undergraduate grade point average of 2.75 or a Graduate Record Examination score of 1200 for the combined quantitative, verbal, and analytical sections of the General Test.

## Master of Arts in Education (Agriculture major or minor)

This program provides graduate coursework in agriculture and meets certification requirements. The student majoring in agriculture shall take a minimum of 18 hours in the major area; the student minoring in agriculture shall take a minimum of 12 hours in agriculture and related areas as designated by the departmental advisor. The remaining hours, in both cases, will be taken in professional education.

## Specialist in Education (See Department of Teacher Education)

## Graduate Courses in Agriculture

- 521 **Pasture Development and Management.** 3 hours.  
Prerequisites: Agro 421, AnSc 345 or equivalent.  
Development of pastures, physiological principles related

to forage production, pasture management, and preservation and use of conserved forages.

- 528 **Agricultural Genetics.** 3 hours.  
Prerequisites: Biol 327, and Agri 491 or equivalent.  
Application of genetic and statistical concepts to populations of domestic animals and plants.
- 533 **Physiology of Lactation.** 3 hours.  
Prerequisite: Agri 344, 431, or Biol 330 or permission of instructor.  
Anatomy of the mammary gland, hormonal control of mammogenesis, initiation and maintenance of milk secretion, factors affecting level and composition of milk, synthesis of milk. Lecture, 2 hours; lab, 2 hours.
- 545 **Ruminant Nutrition.** 3 hours.  
Prerequisite: AnSi 448, Biol 446, or equivalent, or permission of instructor.  
Rumen development and function, products of fermentation, nutrient requirements, absorption and metabolism, symptoms of deficiency and toxicity.
- 546 **Advanced Animal Breeding.** 3 hours.  
Prerequisites: AnSi 446, and Agri 528, or permission of instructor.  
Application of population genetics to the economic improvement of farm animals, phenotypic and genetic relationships, role of selection in changing populations, formulation and application of breeding plans. Lecture, 2 hours; lab, 2 hours.
- 547 **Advanced Animal Nutrition.** 3 hours.  
Prerequisite: AnSi 448, Biol 446 or equivalent, or permission of instructor.  
The individual nutrient requirements of the monogastric animals, the structure, the metabolism and function of each nutrient class, interrelationship of the nutrient classes, deficiency and toxicity symptoms.
- 551 **Advanced Soil Fertility.** 3 hours.  
Prerequisite: Agro 351 or permission of instructor.  
Evaluation of soil fertility and fertilizers; soil-plant relationships; composition and properties of soil in relation to ion intake, nutrition and growth of plants.
- 561 **Agricultural Production Economics.** 3 hours.  
Production and cost functions, programming and decision-making principles and their application to agriculture.
- 583 **Curriculum Development and Determining Content in Vocational Agriculture.** 3 hours.  
Principles of curriculum development, a local survey, and development of a course of study.
- 584 **Program Development in Vocational Agriculture.** 3 hours.  
Inservice course for new and returning vo-ag teachers. Covers planning, conducting, and following through instructional programs for secondary, post-secondary, and/or adult students.
- 589 **Special Problems in Agriculture Education.** 1 to 3 hours.  
Prerequisite or corequisite: Student teaching.  
Supervised individual study in vocational agriculture education.  
May be repeated to a maximum of 6 hours.

- 590 Experimental Design and Data Analysis.** 3 hours.  
Prerequisite: Agri 491 or permission of instructor.  
Statistical consideration in experimental design; covariance, multiple regression, factorial design, incomplete block designs, etc.
- 597 Special Problems In Agriculture.** 1 to 3 hours.  
Prerequisite: Permission of instructor.  
Supervised individual study in agriculture. May be repeated to a maximum of 9 hours.
- 598 Seminar.** 1 hour.  
Problems and research in agriculture. Required of all graduate students. May be repeated to a maximum of 3 hours.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1-6 hours.
- 675 Advanced Topics in Agriculture.** 1 to 3 hours.  
Prerequisite: Permission of instructor.  
Problems and scientific developments of current interest. May be repeated to a maximum of 10 hours with different topics.

**The following 400-level courses may be taken for graduate credit:**

- 402G Landscape Plants II.** 3 hours.  
Prerequisite: Hort 301, or permission of instructor.  
Identification, recognition, and use of landscape plants. Emphasis on evergreens, annuals, perennials, and bulbs. Winter effect and flowering sequence of deciduous trees and shrubs.
- 403G Landscape Design and Construction.** 3 hours.  
Prerequisite: Hort 402.  
Design of residential and commercial landscapes. Techniques and materials for construction of landscape features such as decks, patios, pools, etc.
- 405G Nursery Management.** 3 hours.  
Developing, planning, planting, and maintaining a modern plant nursery of container and field grown stocks of trees, shrubs, and ground covers.
- 409G Weed Science.** 3 hours.  
Identification of prominent weed species; relationship of weeds to crop production problems; physical and chemical control measures. Lecture, 2 hours; lab, 2 hours.
- 412G Modern Fruit Production.** 3 hours.  
Prerequisites: Agro 110.  
Selected problems in planting, management, production, and varieties of deciduous fruits and nuts.
- 413G Plant Propagation.** 3 hours.  
Prerequisite: Agro 110.  
Fundamental principles and basic techniques of plant propagation.
- 414G Crop Improvement.** 3 hours.  
Prerequisites: Six hours of plant science and graduate standing.  
Identification, development, and utilization of genetic differences in the improvement of cultivated plants.
- 419G Vegetable Production.** 3 hours.  
Prerequisites: Agro 110.  
Production and utilization of vegetable crops with emphasis on environmental factors influencing growth and handling of vegetables.
- 421G Forage Crops.** 3 hours.  
Prerequisites: Ag 110, 350, and Biol 120.  
Distribution, improvement, establishment, production and storage of forage crops; soil-plant-animal complex as relates to the morphology, physiology and utilization of forage.
- 422G Field Crops.** 3 hours.  
Prerequisites: Agro 110, 350, and Biol 120, or permission of instructor.  
Distribution, improvement, morphology, culture, harvesting, and utilization of field crops.
- 443G Physiology of Reproduction in Domestic Animals.** 3 hours.  
Prerequisite: AnSc 140, and Bio 120.  
Physiology and endocrinology of reproductive systems; anatomical, physiological, and biochemical basis of reproduction; artificial breeding, synchronized estrus and related topics.
- 446G Animal Breeding.** 3 hours.  
Prerequisites: AnSc 140, and Biol 120.  
Application of genetic and statistical principles to breeding and improvement of farm animals; the role of selection in changing populations.
- 448G Principles of Animal Nutrition.** 3 hours.  
Prerequisite: AnSc 345.  
Principles of nutrition basic to animal feeding, chemical and physiological aspects of nutrition, techniques in nutrition research.
- 449G Laboratory Methods and Techniques in Animal Nutrition.** 3 hours.  
Prerequisites: AnSc 448, Chem 107 or 222.  
Laboratory methods for determining major minerals and vitamins in feeds, proximate analysis of feeds, products of fermentation, feed residues and contamination. Lecture, 1 hour; lab, 4 hours.
- 450G Soil Chemistry.** 3 hours.  
Prerequisites: Agro 350.  
Analytical techniques in soil chemistry and soil fertility studies and nutrient determination; colloidal systems; chemical properties related to plant nutrition.
- 451G Soil Management.** 3 hours.  
Prerequisites: Agro 350, Agro 351, AgEc 361, or permission of instructor.  
Evaluation of characteristics which determine the productive potential of soils and use of this knowledge and the prevailing climate to maximize production or net income.
- 452G Soil Microbiology.** 3 hours.  
Prerequisites: Agro 350, and Biol 207, 208.  
Soil microbial populations and systems and their influence on plant nutrition. Soil organic matter, its decomposition and associated microorganisms; oxidation-reduction process; nitrogen fixation.

- 453G Soil Formation, Classification and Mapping.** 3 hours.  
Prerequisite: Agro 350.  
Soil origin; methods of soil survey; classification schemes; profile description, mapping and interpretation information, with emphasis on Kentucky soils.
- 454G Land-Use Conservation.** 3 hours.  
Prerequisite: AgEc 361, or permission of instructor.  
Economic utilization of land for agricultural recreation and public purposes; interpretation and application of soil conservation; public and industrial use; practice in designing land-use maps.
- 460G Agricultural Policy.** 3 hours.  
Prerequisite: AgEc 360.  
The place of agriculture in the national economy; objectives of agricultural policy; appraisal and proposed agricultural programs; legislation for economics action.
- 461G Advanced Farm Management.** 3 hours.  
Prerequisite: AgEc 361, or permission of instructor.  
Identification, analysis, and solution of problems of farm organization and operation. Case studies and field trips to situation farms in South Central Kentucky. Lecture, 3 hours.
- 463G Agricultural Finance.** 3 hours.  
Prerequisite: AgEc 361, or permission of instructor.  
Farm finance problems including capital requirements, investment decisions, budgeting techniques, etc. Lending agencies and alternative means of acquiring capital.
- 468G World Food Development.** 3 hours.  
Problems and opportunities in feeding an ever-increasing population. Assessment of world food production, poverty, businesses and cultures; ways of increasing production.
- 470G Agricultural Materials Handling.** 3 hours.  
Prerequisite: AgMc 170, or permission of instructor.  
Basic principles, design options, and economic considerations for hay and grain handling systems and for silage and manure systems. Field trips as needed.
- 471G Organization and Planning in Agricultural Education.** 4 hours.  
Organization and program planning for classes in post-high school vocational agriculture and technical programs for young and adult farmers.
- 475G Selected Topics in Agriculture.** 1 to 3 hours.  
Prerequisite: Permission of instructor.  
Special topics on significant problems and scientific developments of current interest in agriculture. Lecture and assignments are variable with credit. May be repeated with change in content.
- 482G Development of Agricultural Resources for Rural Recreation.** 3 hours.  
Developing facilities for recreational enterprises. Topics include enterprise selection, program planning, site selection, financing, and construction.
- 491G Data Analysis and Interpretation.** 3 hours.  
Prerequisite: Math 100 or permission of instructor.  
Statistical models and use of samples, variation, statistical measures, distributions, tests of significance, analysis of variance, regression, correlation and chi-square as related to interpretation and use of scientific data.

## Secondary Education Course

- 470G Methods in Teaching Vocational Agriculture.** 3 hours.  
See course description in Sec. Ed section of this catalog.

## DEPARTMENT OF BIOLOGY

THOMPSON COMPLEX-NORTH WING  
ROOM 201 (502) 745-3696

Valgene L. Dunham, Head

### Graduate Faculty

**Professors:** G. Dillard, V. Dunham, L. Elliott, B. Ferrell, L. Gleason, M. Houston, R. Hoyt, C. Kupchella, K. Nicely, R. Prins, F. Toman, J. Winstead

**Assistant Professors:** K. Balak, C. Davis, N. Dawson, J. Kent, C. Rinehart

**Degrees Offered:** Master of Science in Biology, Master of Arts in Education (Biology major or minor), Doctor of Philosophy (in cooperation with the University of Louisville) in Aquatic Biology.

Admission requires the equivalent of an undergraduate major in biology including supportive courses in science and mathematics. Exceptions are made in favor of superior students whose undergraduate degrees are in allied subject matter fields.

A cooperative graduate program leading to the Doctor of Philosophy with specialization in Aquatic Biology is administered by the departments of biology of Western Kentucky University and the University of Louisville.

### Master of Science in Biology

Due to increased emphasis on research in the biological science brought about by numerous advances in biotechnology, an increasing number of students are continuing studies at the graduate level. The M.S. degree is offered for students seeking research experience in two major areas: organismal/ecology and cell/molecular.

Courses presently offered in each area are as follows:

#### Organismal/ecology:

Bio 401G Biology of the Algae; Bio 408G Invertebrate Zoology; Bio 456G Ichthyology; Bio 458G Fishery Biology; Bio 459G Mammalogy; Bio 460G Parasitology; Bio 470G Pathogenic Microbiology; Bio 472G

Applied and Environmental Microbiology; Bio 485G Field Biology; Bio 515 Ecological Concepts; Bio 530 Animal Behavior; and Bio 591 Aquatic Biology

#### Cell/molecular:

Bio 400G Plant Physiology; Bio 411G Cell Biology; Bio 412G Cell Biology Lab; Bio 446G Biochemistry; Bio 447G Biochemistry Lab; Bio 450G Recombinant Gene Technology; Bio 467G Biochemistry II; Bio 495G Molecular Genetics; Bio 540 Developmental Genetics; Bio 562 Advanced Topics in Biochemistry; Bio 563 Enzymology; Bio 564 Enzymology Lab; Bio 588 Nucleic Acids.

The degree requires a thesis based upon original research conducted under the direction of a departmental graduate faculty member. A non-thesis degree option may be selected with the advise of the graduate student's committee. The research tool requirement may be satisfied by enrollment in a graduate level methodology course in agreement with the student's graduate advisor. Biology 502 Biological Instrumentation and Techniques is required of all new graduate students.

#### Master of Arts in Education (Biology major or minor)

This program is designed for the preparation and strengthening of secondary school science teachers. The major requires a minimum of 18 hours of coursework in biology, and the minor requires a minimum of 12 hours in biology. In both cases, the remainder of the required 30 hours is taken in professional education.

Students who desire a breadth of coursework in the sciences may major in the Science Area of Concentration under the MA in Education program. Students following this option must have all biology course approved by the appropriate advisor in the Department of Biology.

#### Graduate Courses in Biology

- 501 Biological Perspectives.** 4 hours.  
Designed to acquaint graduate students with advances in the biological sciences and practical applications of biological principles. Lecture and lab. (Alternate summers)
- 502 Biological Instrumentation and Techniques.** 3 hours.  
Theory and application of modern, currently used

instrumentation and techniques. 2 hours lecture; 2 hours lab.

- 515 Ecological Concepts.** 4 hours.  
Essential dynamic features of plant and animal populations. Covers the theoretical and empirical aspects of single populations, or pairs of interacting populations, and of whole communities. Lecture and lab. (Alternate spring semesters)
- 516 Investigations in Biology.** 1 to 3 hours.  
Prerequisite: Permission of research project director. Research project completed under faculty supervision. Not applicable for thesis M.S. degree. (Every semester and summer)
- 530 Animal Behavior.** 4 hours.  
Comparative approach to the current understanding of physiological mechanisms involved at the organismal level in transducing environmental input into adaptive behavioral output. Lecture and lab. (Alternate spring semesters)
- 540 Developmental Genetics.** 3 hours.  
Lecture course designed to introduce graduate students to current research topics that apply genetic and molecular approaches to problems in Cell and Developmental Biology. This course will use recent review and research articles for lecture and discussion. (alternate fall semesters.)
- 560 Advanced in Cell Biology.** 3 hours.  
Prerequisites: Biol 411 or equivalent  
Lecture-discussion course designed to understand structure and function of differentiated cells of multicellular organisms. Textbook readings, review articles and current research papers will be incorporated into lectures and discussions.
- 562 Advanced Topics in Biochemistry.** 4 hours.  
Survey of metabolic processes relevant to biochemistry and the biological sciences. Topics include bioenergetics, nucleic acid metabolism, protein synthesis and metabolic regulation. Lecture and lab. (Alternate fall semesters)
- 563 Enzymology.** 3 hours.  
See Biochemistry.
- 564 Enzymology Laboratory.** 1 hour.  
See Biochemistry.
- 569 Professional Work/Career Experience in Biology.** 3 hours.  
Practical experience in a supervised work situation with a cooperative business, industry, or governmental agency, emphasizing application of advanced knowledge and skills in specified areas of biology.
- 588 Nucleic Acids.** 3 hours.  
Structure and function of DNA and RNA and the mechanisms for replication, transcription and translation.
- 589 Internship in Biology.** 3 hours.  
Practical experience in a supervised work situation with a cooperative business, industry, or governmental agency, emphasizing application of advanced knowledge and skills in specified areas of biology.
- 591 Aquatic Biology.** 4 hours.  
Physical, chemical, and biological aspects of bodies of



freshwater, with emphasis on water as a biological environment. Lecture and lab. (Alternate summers)

**598 Graduate Seminar.** 1 hour.  
Special topics in biology. (Every fall and spring)

**599 Thesis Research and Writing.** 6 hours.

**600 Maintaining Matriculation.** 1 to 6 hours.

**601 Internship in College Instruction.** 1 hour.  
Designed for prospective teachers of biology. Staff direction in preparing and giving lectures. Includes analyses of presentation and techniques. May be repeated.

**675 Advanced Topics in Biology.** 1 to 3 hours.  
Selected topics in Biology. (On Demand)

**799 Doctoral Research.** 1 to 6 hours.

**800 Maintaining Matriculation.** 1 to 6 hours.

**The following 400-level courses may be taken for graduate credit:**

**400G Plant Physiology.** 3 hours.  
Prerequisites: Biol 120, 121, and two semesters of chemistry.  
The functioning of plant systems. Lecture, 2 hours; lab, 2 hours. (Fall of odd-numbered years)

**401G Biology of the Algae.** 3 hours.  
Prerequisites: Biol 222, 223.  
Structure, development, systematic and phylogenetic relationships of the algae with emphasis on the freshwater groups. Lecture, 3 hours; lab, 2 hours. (Fall of odd-numbered years)

**404G Techniques and Theory of Electron Microscopy.** 4 hours.  
Prerequisites: Biol 122-123 - (Biol 411 recommended or permission of instructor)  
A course in the fundamentals of electron microscopy including basic theory, techniques for specimen preparation and photography, and operation of the electron microscope. Lecture, two hours; laboratory, four hours.

**408G Invertebrate Zoology.** 4 hours.  
Prerequisites: Biol 224, 225.  
Phyla of invertebrate animals, including their taxonomy, morphology, physiology, development, and evolution. Lecture, 2 hours; lab, 4 hours. (Spring of odd-numbered years)

**411G Cell Biology.** 3 hours.  
Prerequisites: Junior or Senior status  
Morphological and chemical makeup of cells, physical and chemical properties of the cell and modern techniques for investigation of cellular functions. Lecture. (Every fall and spring)

**412G Cell Biology Laboratory.** 1 hour.  
Pre/corequisite: Biol 411G.  
Laboratory correlated with Biol 411G. Two hours per week. (Every spring)

**430G Evolution: Theory and Process.** 3 hours.  
Prerequisite: undergraduate genetics or permission of

instructor.

Study of the development of the evolutionary theory and the processes of evolution including natural selection, population genetics, molecular phylogenies and modes of speciation.

**446G Biochemistry.** 3 hours.  
See Biochemistry.

**447G Biochemistry Laboratory.** 2 hours.  
See Biochemistry.

**450G Recombinant Gene Technology.** 4 hours.  
Prerequisite: Biol 446G.  
Laboratory oriented course that emphasizes the basic techniques used in cloning and sequencing DNA and in the study of gene expression. Lecture, one hour; laboratory, six hours per week. (spring)

**456G Ichthyology.** 4 hours.  
Prerequisites: Biol 224, 225, and permission of instructor.  
Fishes of the world, their physiology, structure, behavior, and ecology. Emphasis on the collection and identification of freshwater species of Kentucky. Lecture, 2 hours; lab, 4 hours. (Fall of odd-numbered years)

**458G Fishery Biology.** 3 hours.  
Prerequisites: Biol 224, 225 and permission of instructor.  
Biological aspects of populations of freshwater fish. Emphasizes reproduction and development, food and feeding habits, population effects, etc. Lecture, 2 hours; lab, 2 hours. (Spring of odd-numbered years)

**459G Mammalogy.** 3 hours.  
Prerequisites: Biol 120, 121.  
Taxonomy, life history and ecology of the mammals. Laboratory work includes field studies and collection and study of specimens in the laboratory. Lecture, 2 hours; lab, 2 hours. (Fall of even-numbered years)

**460G Parasitology.** 4 hours.  
Prerequisites: Biol 224, 225  
The morphology, physiology, life histories, control and economic significance of representative species. Lecture, 2 hours; lab, 4 hours. (Fall of even-numbered years)

**464G Endocrinology.** 3 hours.  
Prerequisites: BIOL 220; BIOL 446-447 strongly recommended.  
A study of the structure and function of the endocrine glands and their role in physiological communication and regulation. (fall, odd numbered years)

**467G Biochemistry II.** 3 hours.  
See Biochemistry.

**470G Pathogenic Microbiology.** 4 hours.  
Prerequisites: Biol 309, 310, or permission of instructor.  
Organisms causing disease with emphasis on bacteria. Includes pathogenic bacteria, viruses, rickettsiae, fungi and protozoa. Lecture, 2 hours; lab, 4 hours. (Every fall)

**472G Applied and Environmental Microbiology.** 4 hours.  
Prerequisites: Biol 309, 310, or consent of instructor.  
The roles of microorganisms in food preservation, fermentation, spoilage, and food intoxication. Production of microbial products of industrial interest; application of modern microbiological techniques to industrial processes;

interrelationships between micro-organisms and their environment.

Lecture, 3 hours; lab, 2 hours.

**475G Selected topics in Biology.** 1 to 3 hours.  
Significant problems and developments of current interest in biology. (Every semester and summer)

**485G Field Biology.** 3 hours.  
Two-week camping field experience on a specific biological topic, preceded and followed by introductory and evaluative sessions. (Summer sessions only)

**491G Data Analysis and Interpretation.** 3 hours. (See Department of Agriculture)

**495G Molecular Genetics.** 3 hours.  
Prerequisite 450G.  
Molecular basics of genetics and heredity of prokaryotic and eukaryotic organisms. Lecture and lab. (Fall)

## DEPARTMENT OF CHEMISTRY

**THOMPSON COMPLEX-CENTRAL WING  
ROOM 444 (502) 745-3457**

**D. W. Slocum, Head**

### Graduate Faculty

**Professors:** D. Hartman, C. Henrickson, R. Hessley, N. Hunter, J. Reasoner, J. Riley, L. Shank, D. Slocum, C. Wilkins

**Associate Professors:** D. Dahl, T. Green, W. Pan

**Assistant Professors:** R. Holman

**Degrees Offered:** Master of Science in Chemistry, Master of Arts in Education (Chemistry major or minor), Doctor of Philosophy in Chemistry (in cooperation with the University of Louisville).

### Master of Science in Chemistry

Candidates for admission to this program must submit evidence of satisfactory completion of undergraduate curricula in chemistry. Graduates of American colleges and universities are urged to submit, at the time of application, test scores from the Graduate Record Examination General Test. Students admitted without these scores should take the test during their first semester on campus. Graduates of foreign colleges and universities are required to submit test scores from Graduate Record Exam (General Test), and the Test of English as a Foreign Language

(TOEFL) as a part of their applications for admission to graduate studies in chemistry.

The Master of Science degree program in Chemistry has been designed around a core curriculum. In addition, a number of elective courses are offered in analytical, inorganic, and physical chemistry and in biochemistry. This program also offers an option in Coal Chemistry.

**Entrance Examinations.** Incoming graduate students are given a set of examinations in analytical, organic, inorganic, and physical chemistry. The results of these standard American Chemical Society examinations do not affect the graduate standing of a student who has already been admitted to the program. A student who is significantly underprepared in a particular area of chemistry will, however, be asked to complete an appropriate undergraduate course (for no graduate credit) prior to enrolling for graduate course work in that area.

**Curriculum Requirements.** All candidates are required to complete a minimum of 30 semester-hours of graduate work, including 24 semester hours of coursework and six hours of thesis research. Two hours of graduate seminar (Chem 598) are required of all M.S. candidates and are included in the 24 semester-hour course work requirements. At least two of the core courses must be at the 500 level. The core courses required of all M.S. degree candidates include:

Chem 435G or Chem 531  
Chem 420G or Chem 520  
Chem 475G or Chem 541  
Chem 452G or Chem 550

**Coal Chemistry Option.** Students electing this option will be expected to complete the following courses in addition to the core courses noted above: Chem 590 and Chem 591.

**Biochemistry Option.** Students electing this option will be expected to complete the following courses in addition to the core courses listed above:

Chem 446G  
Chem 447G  
Chem 467G

Part or all of the six-hour thesis research requirements (Chem 599) may be replaced by a cooperative research project (Chem 596) conducted at a cooperating industrial or governmental laboratory.

**Other Degree Requirements.** The Department requires of all degree candidates the completion of a substantial graduate research project (Chem 599 or 596) and the submission of an acceptable thesis. In addition the Graduate Studies regulations requires demonstrated competence in using a research tool.

**Electives.** Additional coursework hours may be selected from among the core courses or appropriate courses in all areas of chemistry offered by the

## Department.

**Master of Arts in Education (Chemistry major or minor)**

This program is designed especially for the preparation and strengthening of secondary school science teachers.

For a subject-matter major in chemistry, the MA in Education student must complete a minimum of 12 hours of coursework in chemistry. The remaining six hours of the 18-hour major may be taken in chemistry or in a related subject-matter area. The student pursuing a major in an allied subject-matter area may qualify for a minor in chemistry with the completion of a minimum of eight hours of coursework in chemistry. Students who have not previously completed a year of physical chemistry are strongly urged to take Chemistry 450 and 452.

Students desiring a breadth of coursework in the sciences may major in the Science Area of Concentration. The chemistry courses taken under this option must be approved by the advisor in the science area and by the advisor in secondary education.

**Doctor of Philosophy**

A cooperative graduate program leading to the Ph.D. with specialization in fossil fuel chemistry is administered by the Departments of Chemistry of Western Kentucky University and the University of Louisville.

**Graduate Courses in Chemistry**

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| <p><b>500 Fundamentals of Chemistry.</b> 3 hours.<br/>Prerequisite: Undergraduate minor in chemistry.<br/>Fundamental principles, theories, and laws of chemistry. (Not applicable to the MS degree)</p> <p><b>502 Fundamentals of Modern Chemical Analysis.</b> 3 hours.<br/>Prerequisite: Undergraduate minor in chemistry.<br/>Modern methods of chemical analysis including an introduction to instrumental analysis. (Not applicable to the MS degree)</p> <p><b>503 Fundamentals of Modern Chemical Analysis Laboratory.</b> 1 hour.<br/>Corequisite: Chem 502.<br/>Includes experiments using the instruments and techniques discussed in the lecture.</p> <p><b>516 Investigations in Chemistry.</b> 1 to 3 hours.<br/>Review of chemical literature on topics of individual interest. Includes reports and proposals for further research.</p> <p><b>520 Advanced Inorganic Chemistry I.</b> 3 hours.<br/>Prerequisites: Chem 420, 452, or equivalent.<br/>Various aspects of coordination chemistry.</p> | <p><b>521 Advanced Inorganic Chemistry II.</b> 3 hours.<br/>Prerequisite: Chem 520, or permission of instructor.<br/>Current theories of inorganic reaction mechanisms.</p> <p><b>531 Advanced Analytical Chemistry.</b> 3 hours.<br/>Prerequisite: Chem 435, or permission of instructor.<br/>Survey of selected topics in modern instrumental methods of chemical analysis. Includes instrumental techniques not covered in Chem 435.</p> <p><b>540 Organic Reactions.</b> 3 hours.<br/>Prerequisite: Permission of instructor.<br/>Modern synthetic methods used in organic chemistry.</p> <p><b>541 Advanced Organic Chemistry II.</b> 3 hours.<br/>Prerequisites: Org Chem 342, and Phys Chem 452.<br/>Modern physical-organic chemistry including bonding, stereochemistry, reaction mechanisms, concerted reactions, photo-chemistry, and free-radical reactions.</p> <p><b>550 Advanced Physical Chemistry I.</b> 3 hours.<br/>Prerequisite: Chem 452, Math 227, or equivalents.<br/>Covers thermodynamics, kinetics and molecular structure in preparation for graduate study or research.</p> <p><b>551 Advanced Physical Chemistry II.</b> 3 hours.<br/>Prerequisite: Chem 550 or equivalent.<br/>Continuation of basic physical chemistry concepts. Further study in the areas of thermodynamics, kinetics, and molecular structure at the graduate research level.</p> <p><b>562 Advanced Topics in Biochemistry.</b> 4 hours.<br/>See Biochemistry.</p> <p><b>569 Internship in Chemistry I.</b> 3 hours.<br/>Practical experience in a supervised work situation with a cooperating business, industry, or governmental agency. Emphasizes application of knowledge and skills in chemistry.</p> <p><b>570 Lecture Demonstration Techniques.</b> 3 hours.<br/>Prerequisite: Chem 452, or permission of instructor.<br/>The design and operation of meaningful lecture demonstrations in chemistry. (Not applicable to the MS degree)</p> <p><b>580 Chemical Skills.</b> 3 hours.<br/>Skills in the use of the library, glass working, and the laboratory.</p> <p><b>581 Spectroscopy.</b> 3 hours.<br/>Prerequisites: Chem 342, and 452 or 550.<br/>Application of nuclear magnetic resonance, ultraviolet, infrared and mass spectrometry to solving chemical structures.</p> <p><b>589 Internship in Chemistry II.</b> 3 hours.<br/>Practical experience in a supervised work situation with a cooperating business, industry, or governmental agency. Emphasizes application of knowledge and skills in chemistry.</p> <p><b>590 Coal Chemistry.</b> 3 hours.<br/>Prerequisites: Chem 342, 452, or equivalent.<br/>Extensive survey of coal science topics including the geological and chemical aspects of coal formation, as well as coal resources, handling, conversion, and utilization. The organic chemistry and reactivity of coal in combustion and conversion processes will be emphasized.</p> |
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- 591 Coal Chemistry Laboratory.** 3 hours.  
Prerequisite: Chem 330, or equivalent.  
Analytical chemistry of coal including coal sample preparation, characterization, and analysis will be studied. Analyses as specified by the American Society for Testing and Materials (ASTM) will be emphasized. Recent developments in methods and instrumentation used in coal analysis will be studied.
- 596 Cooperative Research I.** 11 hours.  
Prerequisite: Student must have completed one academic year of coursework in Chemistry. Research at a cooperating laboratory leading to a thesis in chemistry.
- 597 Cooperative Research II.** 11 hours.  
Prerequisite: Student must have completed one academic year of the coursework in Chemistry. Research at a cooperating laboratory leading to a thesis in coal chemistry.
- 598 Graduate Seminar.** 1/2 hour.  
Required each semester for all MS-Chem students.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.
- 799 Doctoral Research in Chemistry.** 1 to 6 hours.
- 800 Maintaining Matriculation.** 1 to 6 hours.

The following 400-level courses may be taken for graduate credit:

- 412G Introduction to Physical Chemistry.** 5 hours.  
Prerequisites: Chem 330, Math 118.  
Chemical principles involved in thermodynamics, kinetics, molecular structure, and other topics using biological examples. Specifically for secondary education students and those students not qualifying for the Chem 450-452 sequence. Lecture, 3 hours; lab, 2 hours. Lab meets 4 1/2 hours per week (Fall). (Not applicable to MS degree).
- 420G Inorganic Chemistry.** 3 hours.  
Prerequisites or corequisites: Chem 352-353.  
Atomic and molecular structure, bonding theory, ionic substances, electron deficient compounds, acid-base theory and coordination chemistry. (Not applicable to MS degree).
- 430G Forensic Chemistry.** 3 hours.  
Methods and instrumentation used in the crime laboratory and in the medical technology laboratory. Topics include drugs, blood enzymes, organic and inorganic analysis, etc.
- 432G Modern Methods of Chemical Analysis.** 3 hours.  
Methods and instrumentation used in modern chemical analysis, with emphasis on application rather than theory. (Not applicable to the MS degree)
- 435G Analytical Chemistry.** 4 hours.  
Prerequisites: Chem 452-453.  
Modern instrumental methods of analysis including spectroscopic, electroanalytical and chromatographic techniques.
- 446G Biochemistry.** 3 hours.  
See Biochemistry.

- 447G Biochemistry Laboratory.** 2 hours.  
See Biochemistry.
- 450G Physical Chemistry I.** 3 hours.
- 451G Physical Chemistry Laboratory.** 2 hours.
- 452G Physical Chemistry II.** 3 hours.
- 453G Physical Chemistry Laboratory.** 2 hours.
- 462G Bioinorganic Chemistry.** 3 hours.  
See Biochemistry.
- 467G Biochemistry II.** 3 hours.  
See Biochemistry.
- 470G Chemistry for the "Middle School."** 4 hours.  
Prerequisite: Chem 108, or 123, or permission of instructor.  
Chemical theories and principles in the middle school science curricula. (Elective credit only)
- 475G Advanced Topics in Chemistry.** 1 to 3 hours.  
Topics in analytical, biochemical coal, inorganic, organic, physical and polymer chemistry. May be repeated with different topic.
- 476G Advanced Laboratory Investigations in Chemistry.** 2 hours.  
Prerequisite: Chem 314, or 343.  
A course for advanced students involving assigned laboratory work in the field of inorganic chemistry. Typical procedures and experiments are those involving the synthesis, characterization, and identification of various chemical compounds, using a variety of handling techniques, and the application of various physical methods. (Not applicable to M.S. Degree).

## BIOCHEMISTRY

THOMPSON COMPLEX  
CENTRAL WING  
(502) 745-3457

### Graduate Faculty

Professors: V. Dunham, D. Hartman, M. Houston

Biochemistry is the study of the most intricate of all chemical systems, living matter, and attempts to determine the chemical nature and chemical reactions in protoplasm--the basic material of living matter. Training in biochemistry provides many opportunities in teaching, research, and public service and provides excellent preparation for many other areas of basic and applied sciences.

Biochemistry courses are administered jointly by the Department of Biology and Chemistry. The student should enroll either in the Department of Biology or the Department of Chemistry, depending upon the major emphasis. Enrollment requires the completion of

proper prerequisites in biology and chemistry.

For further information, contact Dr. Toman in the Department of Biology, or Dr. Hartman in the Department of Chemistry.

### Graduate Courses in Biochemistry

- 562 Advanced Topics in Biochemistry.** 4 hours.  
Survey of metabolic processes relevant to biochemistry and the biological sciences. Topics include bioenergetics, nucleic acid metabolism, protein synthesis and metabolic regulation. Lecture and lab. (Alternate fall semesters)
- 563 Enzymology.** 3 hours.  
Prerequisites: Biochem 446, and 447.  
Includes kinetics and mechanisms for reactions of biological significance. Lecture. (On demand)
- 564 Enzymology Laboratory.** 1 hour.  
Corequisite or prerequisite: Biochem 563.  
The techniques of enzyme isolation and purification coupled with kinetic studies. Three hours per week. (On demand)

The following 400-level courses may be taken for graduate credit:

- 411G Cell Biology.** 3 hours.  
See Department of Biology.
- 412G Cell Biology Laboratory.** 1 hour.  
See Department of Biology.
- 446G Biochemistry.** 3 hours.  
Prerequisite: Chem 314, or 340.  
Biochemical compounds and their role in metabolism. Lecture. (fall, spring)
- 447G Biochemistry Laboratory.** 2 hours.  
Corequisite or prerequisite: Biochem 446.  
Selected experiments which illustrate biochemical principles. Six hours per week. (spring)
- 462G Bioinorganic Chemistry.** 3 hours.  
Prerequisite: Chem 314, or 340.  
The coordinating properties and reactivity of metal ions on living organisms. Lecture. (on demand)
- 467G Biochemistry II.** 3 hours.  
Prerequisite: Biochem 446.  
The reactions of living systems and an introduction to the mechanisms and energetics of metabolism. Lecture (spring)

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### DEPARTMENT OF COMPUTER SCIENCE

THOMPSON COMPLEX-CENTRAL WING  
ROOM 137-A (502) 745-4642

Kenneth L. Modesitt, Head

### GRADUATE FACULTY

**Professors:** R. Crawford, J. Crenshaw, K. Modesitt

**Associate Professors:** G. Baur, D. Pigford, A. Shindhelm

**Assistant Professors:** A. Kooshesh, U. Ziegler

**Degree Offered:** Master of Science in Computer Science

This program is designed to provide post-graduate education for individuals seeking professional careers in computer science. Areas of emphasis are information systems, systems programming, and algorithms.

In addition to the general Graduate Studies requirements, applicants must have completed approximately two years of undergraduate study in computer science and mathematics. Minimal requirements include a knowledge of programming in a higher level language; assembly language; computer organization; discrete structures. Also required are at least 8 hours of calculus. A knowledge of probability and statistics is highly recommended. These entrance requirements may be satisfied by courses taken as an undergraduate, substantial practical experience in the computer field, or deficiency coursework taken while a graduate student.

A minimum of 30 semester hours of coursework is required. Both thesis and non-thesis options are available. The research tool, under both options, may be met by successful completion of CS 476G Research Methods and Projects. No credit earned in meeting the research tool requirement will apply toward hours required for the degree.

**Specific degree requirements are as follows:**

- A. CS 442G Data Structures  
CS 443G Data Base Management Systems  
CS 445G Operating Systems II  
CS 541 Mathematical Foundations of Computer Science  
CS 543 Computer Information Systems Design  
CS 544 Compiler Theory and Design
- B. Two elective computer science courses and two elective courses from computer science or a cognate area approved by the graduate advisor.
- C. A minimum of four 500-level computer science courses.

If any of the required courses have been completed for undergraduate credit, electives will be

substituted.

## Graduate Courses in Computer Science

- 541 Mathematical Foundations of Computer Science.** 3 hours.  
Topics of fundamental importance to computer science, including languages, finite automata, grammars, and Turing machines. (fall)
- 543 Computer Information Systems Design.** 3 hours.  
Prerequisite: CS 443.  
Systems organization, design, and implementation. Physical and logical file organization methods and access techniques. Alternatives in system design and implementation. Group projects include design and implementation of a data base system. (spring)
- 544 Compiler Theory and Design.** 3 hours.  
Prerequisites: CS 444.  
Formal properties of programming languages and the techniques used to construct compilers for these languages. Topics include parsing techniques, symbol table construction, code generation, etc. Class will complete a programming project. (spring)
- 545 Advanced Operating Systems Principles.** 3 hours.  
Prerequisite: CS 445.  
Theoretical and practical material on operating systems. Examines system optimization, resource protection, multiprocessing, performance evaluation, and existing operating systems. The student develops a small operating system. (spring)
- 549 Analysis of Algorithms.** 3 hours.  
Prerequisite: CS 338.  
Methods (algorithms) for solving a variety of problems on computers and the relative efficiency of these algorithms. (fall)
- 567 Micro-computer Operating Systems.** 3 hours.  
Prerequisite: CS 425  
System-level study of the most popular micro-computer operating systems including memory and disk space management; interrupts; and system services. System utility programs will be developed. (fall)
- 595 Advanced Topics In Computer Science.** 1 to 3 hours.  
Prerequisites: 9 hours of CS and permission of instructor.  
Significant problems and current developments in computer science. May be repeated with a different topic for a maximum of 6 hours. (fall, spring)
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

The following 400-level CS courses may be taken for graduate credit:

- 405G Numerical Analysis I.** 3 hours.  
Prerequisites: Math 327, CS 245 Fortran  
Cross-listed with Math 405G. (fall)
- 406G Numerical Analysis II.** 3 hours.

Prerequisites: CS 405, Math 331. Cross listed with Math 406G. (spring)

- 442G Data Structures.** 3 hours.  
Prerequisite: CS 338.  
Arrays, lists, trees, storage and file structures, sorting and searching techniques, dynamic storage allocation and garbage collection algorithms, structures, pointers, bit and character strings, list processing, recursive programming for tree processing. (spring)
- 443G Data Base Management Systems.** 3 hours.  
Prerequisite or corequisite: CS 338, 360  
Design and implementation of data base management systems; data organization and management; survey of several systems; assigned projects will require use of several established systems. (fall)
- 444G Programming Languages.** 3 hours.  
Prerequisite: CS 242, and permission of instructor.  
Survey of procedure-oriented and special-purpose languages. Emphasis on the syntactic and semantic structures present in these languages. (fall)
- 445G Operating Systems II.** 3 hours.  
Prerequisite: CS 425.  
Examination of how an operating system sits on a computer architecture. Student will use the privileged instruction set of a specific architecture to write their own simple operating systems or operating system modules. Also, theory of bootstrap loading, memory protection and management, etc. (spring)
- 446G Interactive Computer Graphics.** 3 hours.  
Prerequisites: CS 338, MA 307  
Elementary topics in interactive computer graphics. Includes both input and display devices and techniques for 2-D and 3-D transformations, as well as difficulties encountered in these areas. Computing assignments will emphasize interaction, data structures, and applications to various disciplines. (fall)
- 447G System Simulation.** 3 hours.  
Prerequisites: CS 241, Math 203.  
Computer simulation of theoretical systems and realtime processes. Includes abstract properties of simulations; basic algorithms for lists, list structures, and stochastic processes; general purpose simulation languages. Term project simulation pro-gram required. (spring - even numbered years)
- 450G Telecommunications.** 3 hours.  
Prerequisite: CS 425  
Fundamentals of telecommunications, modulation and multiplexing techniques, communications media, transmission and switching systems, error detection and correction procedures, etc. (fall)
- 456G Artificial Intelligence.** 3 hours.  
Prerequisite: CS 338, 360.  
Problems having no plausible algorithmic solution, their computer representations and solutions which usually involve heuristics. (fall)
- 458G Expert Systems.** 3 hours.  
Prerequisite: CS 456, or equivalent.  
Expert systems with respect to uses, areas of appropriateness, and component parts. Student will design and implement an expert system. (spring)



- 460G Software Engineering II.** 3 hours.  
Prerequisites: CS 360 or equivalent.  
Examination of critical theoretical problems underlying software engineering, including the rigorous treatment of software metrics, cost-estimating, object-oriented design, real time systems, etc. (spring-odd numbered years)
- 475G Selected Topics In Computer Science.** 1 to 3 hours.  
Prerequisite: Permission of instructor.  
Significant problems and developments in computer science. May be repeated for 6 hours. (fall, spring)
- 476G Research Methods and Projects in Computer Science.** 3 hours.  
Prerequisite: CS 360.  
Analysis and design of computer based systems. Design techniques are applied in one or more large-scale programs requiring attention to documentation, communications, and interfacing of modules in a team project. May be repeated for 6 hours. (spring)

## DEPARTMENT OF GEOGRAPHY AND GEOLOGY

**ENVIRONMENTAL SCIENCE AND  
TECHNOLOGY BUILDING  
ROOM 305 (502) 745-4555**

**Wayne L. Hoffman, Head**

### Graduate Faculty

**Professors: R. Ahsan, N. Crawford, J. Davis, N. Fields, W. Hoffman, K. Kuehn, M. Lowry, C. Moore, A. Petersen**

**Associate Professors: M. Trapasso**

**Assistant Professor: S. Foster, D. Kuehn**

**Degrees Offered:** Master of Science in Geography, Master of Arts in Education (Geography major or minor), Master of Science in City and Regional Planning.

The graduate programs in geography and city and regional planning provide a solid background for students who plan to continue advanced studies toward the Ph. D. degree, to pursue careers in college teaching or teaching in middle and high schools, or to enter the private sector. Graduates are prepared for a variety of other employment areas such as rangers or naturalists in national and state parks, cartographers, air photo interpreters, city and regional planning, and similar consulting positions in business and industry.

Applicants for the Master of Science in Geography and in City and Regional Planning must

have (1) an overall grade point average of 2.80 or above, or (2) a grade point average of 2.80 or above on the last sixty semester hours of undergraduate work, or (3) a score of 1200 or above (verbal, quantitative, and analytical combined) on the General Test of the Graduate Record Examination.

### Master of Science in Geography

Both Plan A (thesis) and Plan B (non-thesis) are available. Plan A requires a minimum of 30 semester hours of graduate credit, including Geog 500, 502, 504, and 491G or 590. With approval from the advisory committee, a student may take a maximum of six hours outside the discipline. The thesis must be based upon original research directed by the advisor. Plan B requires 33 semester hours of graduate credit individually planned, with 18 hours in courses open only to graduate students.

The research tool, under both plans, must be met by demonstrating either (1) reading proficiency in a foreign language appropriate for the major area or (2) competency in an appropriate research technique.

Individual student programs may be designed to emphasize mapping, remote sensing, hydrology and geomorphology, meteorology, and climatology, resource management, planning and regional geography.

**Master of Arts in Education** (Geography major or minor)

Students following this program must meet all requirements for standard high school certification. The major requires a minimum of 18 hours (see advisor for course selection). The minor requires a minimum of 12 hours. The remaining hours (within the required 30) are taken in professional education.

### Master of Science in City and Regional Planning

This interdisciplinary program consists of offerings from several departments and prepares individuals to serve in governmental positions requiring administrative training as well as knowledge of the particular areas they are to administer.

This program provides academic and practical training in city and regional planning and prepares students for employment with local, state, and federal agencies, as well as for positions within the private sector economy.

All candidates for the Master of Science in City and Regional Planning are required to complete a minimum of 9 hours of core coursework—three semester hours from category A and six semester hours from category B as follows:

- A. Organization Theory Courses. 3 hours  
Govt 540 Seminar in Public Sector Organizations  
Psy 551 Social Psychology of Organizations  
Soc 562 Formal Organizations
- B. Socio-Economic and Political Factor Courses. 6 hours  
\* Geog 484G Planning: Theory and Application  
Govt 510 Problems in National Government  
Govt 511 Seminar in State Government  
Soc 542 Community

\*Required for the City and Regional Planning Program

Individual programs are planned in accordance with specific needs of the student. A research tool is required. The thesis is optional.

**Required courses within the 36-hour minimum:**

- Geog 500 Introduction to Research  
Geog 580 Problems in Urban Geography  
Geog 584 Advanced Planning  
Geog 595 Planning Practicum

### Graduate Courses in Geography

- 500 Introduction to Geographic Research.** 3 hours.  
Development of geographic research skills with emphasis on posing of research problems, documentation, organization, and presentation.
- 501 Geography, Science, Civilization.** 3 hours.  
Topical seminar examining current issues and trends of the discipline and related fields, recent research, and the role of science in society, technology and culture.
- 502 Geographic Techniques for Field Investigations.** 3 hours.
- 504 Historical and Philosophical Bases of Geography.** 3 hours.  
The evolution of geography as a distinct discipline through study of the writings of outstanding scholars.
- 505 Biogeography.** 3 hours.  
Prerequisites: Introductory courses in geography and/or biology, and permission of the instructor.  
The evolutionary, geographical, ecological, pedological, and edaphic factors involved in the naturalization, acclimatization, and distribution of plant and animal life.
- 510 Selected Topics in Geography.** 3 hours.  
Topics will vary with student needs.
- 521 Advanced Studies in Geomorphology.** 3 hours.  
Prerequisites: Geomorphology 420, or equivalent, and 3 hours in upper-level physical geography or geology.  
A review of topics in advanced geomorphology, field and laboratory procedures, and an introduction to research in landform analysis. Research in instructor-approved geomorphic topics.
- 522 Advanced Studies in Climatology.** 3 hours.
- 524 Meteorology for Science Teachers.** 3 hours.  
Basic weather course with emphasis on new developments and applications.
- 525 Advanced Political Geography.** 3 hours.
- 530 Selected Problems in Cultural Geography.** 3 hours.  
Prerequisite: Geog 430, or permission of instructor.  
Seminar-field experience. Covers cultural origins and dispersals, environmental perception and behavior, and resulting consequence upon the geographic landscape.
- 532 Studies in Geographic Exploration.** 3 hours.  
Eighteenth, 19th, and 20th century scientific exploration of the "terrae incognitae" through examination of firsthand accounts.
- 534 Historic Preservation Planning: Application.** 3 hours.  
Prerequisite: Geog 434G.  
Field application of historic preservation method and techniques.
- 540 Advanced Regional Geography.** 3 hours.  
Prerequisites: Two courses in regional geography and consent of instructor.  
The regional method as a basic approach to geographic research via one or more major regional units.
- 541 Seminar in Tropical Geography.** 3 hours.  
Prerequisites: Geog 210, 422, 430, and permission of instructor.  
Specific problems of the man-environment relationships of the American, African, and Asian Tropics.
- 550 Advanced Studies in Economic Geography.** 3 hours.  
Prerequisites: Geog 350, 478 or 479, and permission of instructor.  
An examination of the major theories in economic geography.
- 560 Settlement Geography.** 3 hours.  
Prerequisite: Geog 430, or consent of instructor.  
Sources and philosophies of settlement studies. Investigations of selected settlement patterns with emphasis on rural and rural non-farm settlement; farmstead, hamlet, village and town, and functionally related features, architectural style, and functional rationale.
- 571 Quality of Life, Environmental Problems and Ecological Solutions.** 3 hours.  
Seminar approach to developing critical ecological sensitivity through analysis of past and present environmental problems, implemented and alternative solutions.
- 580 Problems in Urban Geography.** 3 hours.
- 584 Advanced Planning.** 3 hours.  
Prerequisite: Geog 484.  
Analysis of advanced topics and results of recent research in city and regional planning.
- 585 Advanced Studies in Population Geography.** 3 hours.
- Prerequisites: Geog 422, and permission of instructor.  
The effects of climatic controls on micro-climates and climatic anomalies. Detailed use of environmental characteristics, i.e., rainfall patterns, etc.

Prerequisites: Permission of instructor.  
Seminar approach to regional and world problems in human population.

- 590 Experimental Design and Data Analysis.** 3 hours.  
Prerequisite: Geog 491, or permission of instructor.  
(Cross-listed with Agriculture 590)  
Statistical consideration in experimental design; Covariance, multiple regression, factorial design, incomplete block designs, etc.
- 595 Planning Practicum.** 3 to 6 hours.  
Prerequisites: Geog 484, 584, and permission of instructor.  
Supervised planning experience in a cooperating government or private agency.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

**The following 400-level Geography courses may be taken for graduate credit:**

- 402G Physiography of North America.** 3 hours.  
Prerequisites: Geog 100, or Geol 102 or 111, and 113.
- 404G Computer Mapping.** 3 hours.  
Geographic information systems and computer mapping programs. Introduction to the graphics terminal, plotter, hard copy unit, and digitizers. While knowledge of computer programming is not required, a course such as CS-240 would be extremely helpful.
- 410G Cartography II.** 3 hours.  
Prerequisite: Cartography I (315)  
History of cartography, map compilation, lettering and typography; cartographic design, map reproduction, use of color, map projections, scribing techniques.
- 415G Air Photo Interpretation.** 3 hours.  
Characteristics of aerial photographs; use of air photos for analysis of the earth's physical and cultural features; air photo approach to urban and regional planning.
- 416G Remote Sensing: Principles and Applications to Environment and Planning.** 3 hours.  
Remote sensing techniques and their application in the study of man's biophysical environment. through the use of infrared, thermal infrared, radar and space photography.
- 420G Geomorphology.** 4 hours.  
Prerequisites: Geog 100, or Geol 102, or 111, and 113.  
The origin, history, and characteristics of landforms produced by fluvial, glacial, wind and wave erosion and by masswasting and ground-water.
- 421G Advanced Geomorphology.** 3 hours.  
Prerequisite: Geog 420.  
Landform development under processes associated with running water. Principal topics are: climate and geomorphic processes; weathering; the drainage basis as a geomorphic unit; channel form; hillslope characteristics; drainage pattern evolution, etc.
- 422G Climatology.** 4 hours.  
Prerequisites: Geog 100, 121.  
The elements of climate and their world distribution with emphasis on the climatic controls.
- 423G Transportation Planning.** 3 hours.  
The problems of interaction, diffusion and information transfer as they appear in a spatial context.
- 424G Weather Analysis and Forecasting.** 3 hours.  
Prerequisites: Geog 100, 121, or permission of instructor.  
Analysis of air masses; principles of weather forecasting; drawing and interpretation of the daily weather map; and making weather forecasts.
- 425G Political Geography.** 3 hours.  
Prerequisite: Geog 101, or permission of instructor.  
The political system as a spatial phenomenon. Examples from local, metropolitan-regional, national and international levels.
- 426G Applied Meteorology/Climatology.** 3 hours.  
Prerequisites: Geog 121, 422, or permission of instructor.  
Practical insight into influences of meteorology and climatology on man. Problems of the physical environment. caused by what man has done or will do to weather/climate patterns of the world.
- 430G Cultural Geography.** 3 hours.  
Concepts of culture and the interaction between various cultures and their environments. Field trip and field research required.
- 434G Historic Preservation Planning: Principles and Practices.** 3 hours.  
Historic preservation methodology and practice as related to urban, small town, and rural neighborhoods. Includes historic preservation law and impact statements. Field project required.
- 451G Geography of Kentucky.** 3 hours.  
Regional study assessing the natural and human resources with special attention to current ecological, social, and economic problems. Field experience required.
- 452G Field Studies in Geography.** 3 hours.
- 453G Geography of the Soviet Union.** 3 hours.
- 454G Geography of Middle America.** 3 hours.  
Prerequisite: Geog 101, or permission of instructor.  
A regional analysis of Mexico, Central America, and the West Indies.
- 462G Geography of South America.** 3 hours.  
Prerequisite: Geog 101 or permission of instructor.  
Physical and cultural bases of South America's geographic patterns with emphasis on problems of resource development.
- 464G Geography of Europe.** 3 hours.  
Prerequisite: Geog 101, or permission of instructor.
- 465G Geography of Asia.** 3 hours.  
Prerequisite: Geog 101, or permission of instructor.  
Regional differences with emphasis on the distribution and activities of the peoples relative to the natural and economic setting and to problems of development.
- 466G Geography of Africa.** 3 hours.  
Prerequisite: Geog 101, or permission of instructor.  
Geographic survey, assessing the relationships of the physical and cultural patterns to actual and potential economic development.

**467G Geography of the Middle East.** 3 hours.  
Various aspects of the sequent occupance of Southwestern Asia and surrounding regions mentioned in the Bible.

**474G Environmental Planning.** 3 hours  
Prerequisite: Geog 100  
An advanced integrative course in environmental science and planning dealing with urban and rural areas. Emphasis on ecological planning strategies for improving climatic conditions, conserving water and optimizing vegetative and aquatic habitats while allowing for sustainable economic development at reduced cost.

**479G Industrial and Commercial Geography.** 3 hours.  
Prerequisite: Geog 350, or permission of instructor.  
Manufacturing and commercial activities and facilities related to assembling of raw materials and distribution of products.

**484G Planning: Theory and Application.** 3 hours.  
Planning theory, practice, and organizational structure.

**487G Environmental Law.** 3 hours.  
Prerequisite: Senior level standing  
An introduction to major environmental legislation for air, water, toxic, and hazardous pollutants; and related legislative, administrative, and judicial developments.

**488G Rural Planning.** 3 hours.  
Principles and practices of rural planning with emphasis on the relationships between planning and economic, social, and ecologic problems in the rural setting.

**491G Data Analysis and Interpretation.** 3 hours.  
Prerequisite: Math 100, or permission of instructor.  
Statistical models and use of samples; variation, statistical measures, distributions, tests of significance, analysis of variance, regression, correlation and chi-square as related to interpretation and use of scientific data. (Fall, spring)

**492G Spatial Analysis.** 3 hours.  
Prerequisites: Geog 300, 491 or equivalent.  
History and philosophy of spatial analysis. Applications of spatial analytical techniques in an interactive computer-based environment.

**493G Geographic Information Systems.** 3 hours.  
Prerequisites: Geog 315, 404, or 492.  
Basic concepts and applications of data management, display, and analysis using geographic information systems.

**497G Spatial Decision Support Systems.** 3 hours.  
Prerequisite: Geog 350  
Theory of locational decision making. Application of locational models in an interactive computer-based environment.

**The following graduate course, specially designed for teachers of natural and earth science, is offered in Geology:**

**511 The Dynamic Earth.** 3 hours.  
Prerequisites: Geol 102, 112, or one year of earth sciences teaching at secondary school level.  
Topics include plate tectonics, the surface features of Earth, physical properties of Earth and its interior, geological processes and the geological time scale,

continental drift, paleomagnetism, etc.

**The following 400-level Geology courses may be taken for graduate credit:**

**405G Paleontology.** 4 hours.  
Prerequisites: Geol 112, 114, Biol 120-121, or permission of instructor.  
Nature of the fossil record, preservation, basic factors and theories relating to the origin and development of living systems and the processes of evolution, the species concept, systematic and paleoecology.

**415G Environmental Geology.** 3 hours.  
Prerequisites: Geol 111-113, Geog 100 or Geol 102, or permission of instructor.  
Geologic factors as related to site selection, energy production, land use, waste disposal, planning, water resources, engineering practices, and the recognition and control of geologic hazards.

**420G Geomorphology.** 3 hours.  
Prerequisites: Geog 100, or Geol 102 or 111, and 113.  
Origin, history, and characteristics of landforms produced by fluvial, glacial, wind and wave erosion, and by mass-wasting and ground water.

**440G Hydrogeology.** 3 hours.  
Prerequisite: Geol 310  
Origin, occurrence and movement of ground water; wells and aquifer evaluations; quality of ground water supplies; legal aspects.

**445G Aqueous Geochemistry.** 3 hours  
Prerequisites: Chem 120 and 121  
An introduction to the geochemical processes of surface and ground water including concentrations of ions and organic compounds, chemical equilibria, and analytical techniques. Carbonate and clay minerals will be studied in detail.

**460G Sedimentology.** 4 hours  
Prerequisite: Geol 370 (Stratigraphy).  
An introduction to the processes of erosion, transportation, and deposition of sediments and their subsequent diagenesis. Interpretation of sedimentary depositional environments will be emphasized.

**465G Geophysics.** 3 hours.  
Prerequisites: Geol 111, and one year of college physics, or instructor's permission.  
General and exploration geophysics. Topics include the origin of the earth and solar system, the earth's interior, gravity and isostasy, seismology, upper atmosphere, continents and ocean basins, etc.

**470G Tectonics.** 3 hours.  
Prerequisite: Geol 308.  
Deformation structure and style of various crustal regions. Regional tectonics of North America is emphasized.

**475G Special Topics in Geology.** 3 hours.

**480G Coal Geology.** 4 hours.  
Origins, characteristics, and occurrences of coal and coal-bearing strata. Topics include sample description, relationships between depositional environment and coal characteristics, techniques in coal prospects. Field trip required. Aspects of Coal Petrology and Technology are

studied in the lab.

**490G Petroleum Geology. 3 hours**

Prerequisite: Geol 370 or equivalent

Concepts of oil formation, source-rock evaluation, thermal maturation and petroleum migration are reviewed. Emphasis is placed on characterization of petroleum reservoirs and traps and on the techniques employed by geologists in exploration for oil and gas accumulations.

**492G Spatial Analysis. 3 hours**

Prerequisites: GEOG 300, GEOG 491.

History and philosophy of spatial analysis. Applications of spatial analytical techniques in an interactive computer-based environment.

## DEPARTMENT OF INDUSTRIAL TECHNOLOGY

**ENVIRONMENTAL SCIENCE AND  
TECHNOLOGY BUILDING  
ROOM 205 (502) 745-3251**

**T. N. Tomazic, Interim Head**

### Graduate Faculty

**Professors: F. Conley, F. Pittman, D. Wendt**

**Degrees Offered:** Masters of Arts in Education (industrial Education major or minor), Specialist in Education (for secondary teachers in the area of Industrial Arts).

Applicants must meet the general Graduate Study requirements and of the College of Education and Behavioral Sciences.

**Master of Arts in Education (Industrial Education major or minor)**

This program is designed for the professional development of persons who are teaching in or administering industrial education programs and also serves as the basis for entering a specialist or doctoral program. Its flexibility meets the needs of students with varying backgrounds and goals.

Individuals following this program must meet all requirements for standard high school certification (see Secondary Education).

The major requires a minimum of 18 hours and the minor requires a minimum of 12 hours of industrial

education courses. The remaining hours, in both cases, will be taken in professional education courses.

### Specialist in Education (See Secondary Education)

### Graduate Courses in Industrial Education

**510 Investigations in Industrial Education. 3 hours.**  
Individual research under the direction of a graduate faculty member.

**520 Philosophy of Industrial Education. 3 hours.**  
The development of industrial education in Europe and America. Emphasis on influences, experiments, and trends leading to modern practices in industrial, vocational, and technical education.

**525 Industrial Education Curriculum. 3 hours.**  
Curriculum practices, concepts, and trends in curriculum development and improvement of programs.

The following courses are for students pursuing specific areas.

**530 Advanced Drafting. 3 hours.**

**532 Industrial Design. 3 hours.**

**542 Industrial Electricity and Electronics. 3 hours.**

**544 Wood Technology. 3 hours.**

**548 Graphic Arts. 3 hours.**

**552 Advanced Machine Shop. 3 hours.**

**556 Power and Auto Mechanics. 3 hours.**

**560 Metal Technology. 3 hours.**

**564 Problems in Crafts. 3 hours.**

**568 Ceramics and Plastics. 3 hours.**

**572 General Shop. 3 hours.**

**599 Thesis Research and Writing. 6 hours.**

**600 Maintaining Matriculation. 1 to 6 hours.**

The following 400-level courses may be taken for graduate credit in Industrial Education:

**410G Industrial Arts Problems. 3 hours.**  
Prerequisite: Graduate standing.  
Individual study and/or research in industrial education.

**439G Workshop in Industrial Education. 3 hours.**  
Prerequisite: Graduate standing.  
Special short course on problems in industrial education and technology.

**452G Industrial Wood Processing II. 3 hours.**  
Prerequisite: MT 103, or 340.  
The setup and use of woodworking machines. Includes

tooling, jig and fixture design, and the mass production of wood products. Field trips.

**465G Industrial Arts for Elementary Teachers.** 3 hours.  
Prerequisite: Graduate standing.  
Philosophy, purposes, organization and correlation of industrial arts activities as they apply to the elementary school program.

**495G Acoustic Guitar Construction.** 4 hours.  
Prerequisite: MT 103, or equivalent.  
The Haile method of steel string and/or classic guitar construction. Students are required to construct an acoustic guitar and related jigs and fixtures. Lecture, lab, and field trips.

**The following 400-level courses may be taken for graduate credit in the Department of Engineering Technology:**

**410G Water Treatment Processes.** 3 hours.  
Prerequisite: Env. 280  
Corequisite: Env. 415/415G.  
Design and operational characteristics of unit processes in water and waste-water treatment; fundamentals of water chemistry pertaining to chemical, biological, and physical treatment.

**415G Water Quality Laboratory.** 1 hour.  
Corequisite: Env. 410.  
Determination of water quality characteristics, pertinent to water and waste-water treatment.

**430G Radiological Health.** 3 hours.  
Prerequisite: Phys 332.  
Corequisite: Env 435  
Fundamentals of detection of ionizing radiation; radiation interaction, with matter; biological effects; radiation dosimetry; and radiation protection concepts. (fall, spring)

**435G Radiological Health Laboratory.** 1 hour  
Corequisite: Env 430  
A laboratory course correlated with ENV 430. Two laboratory hours per week. (fall, spring)

**440G Industrial Hygiene.** 3 hours.  
Prerequisite: Permission of instructor.  
This course presents the fundamental principles of occupational health and the recognition, evaluation and control of occupational health hazards. The course agenda includes lectures, demonstrations and field trips on such topics as the Occupational Safety and Health Act, 1970; industrial health hazards; reaction of the respiratory system to particular gasses; mode of action of organic and inorganic chemicals such as lead and mercury; pneumoconiosis; noise measurement and control; evaluation of heat stress; electromagnetic spectrum; ionizing radiation; industrial ventilation; and instrumental methods such as X-ray diffraction; gas chromatography and atomic absorption. Lecture.

**460G Environmental Impact Assessment.** 3 hours.  
Prerequisite: Permission of instructor  
Designed to provide the student with the necessary information in the preparation of assessments of environmental impacts as outlined by the National Environmental Policy Act (NEPA). Available resource information will be provided. (fall)

**470G Industrial Waste Treatment.** 3 hours.  
Prerequisite: Permission of instructor.  
Studies of the characteristics and composition of wastes from industrial processes and their effects on the environment. Methods of sampling and analysis of industrial waste and remedial measures for treatment and disposal are covered. Unit operations and processes are included in remedial measures.

**475G Selected Topics.** 1 to 3 hours.  
Prerequisite: Permission of instructor.  
A consideration of special topics to acquaint the advanced student with significant problems and developments of current interest in environmental technology. Topics to vary each semester offered. Field trips as appropriate. (fall, spring)

**480G Solid Waste Treatment.** 3 hours.  
Prerequisite: Env 280  
Includes physical and chemical composition of refuse, cost of refuse disposal, collection methods and disposal methods such as sanitary landfill, incineration, composting, salvage and reclamation. Management of hazardous wastes is included. The public health significance of solid waste and hazardous waste management is emphasized. (spring)

## DEPARTMENT OF MATHEMATICS

**THOMPSON COMPLEX-CENTRAL WING  
ROOM 357 (502) 745-3651**

**James R. Porter, Head**

### Graduate Faculty

**Professors: J. Barksdale, J. Porter, G. Powers, J. Stokes, C. Wells**

**Associate Professors: B. Brunson, N. Iraniparast, P. Lowman, B. Richmond, T. Richmond, J. Spraker**

**Assistant Professors: D. Biles, C. Ernst, D. Mooney, D. Neal, M. Robinson, R. Swift, W. Weidemann**

**Degrees Offered:** Master of Science in Mathematics, Master of Arts in Education (Mathematics major or minor, Math Science Area major).

Applicants for departmental programs must have the appropriate background in mathematics. In addition to the general Graduate Study requirements, students must meet departmental requirements.



### Master of Science in Mathematics

This program is designed to give the student a general but thorough understanding of the main areas of pure and applied mathematics. For acceptance into the program, the student is expected to have completed courses in linear algebra, abstract algebra and either real analysis or advanced calculus.

A minimum of 30 semester hours is required. Both the thesis and non-thesis options are available. Each student's program is developed individually and must satisfy the following requirements:

A. Math 417G, 431G, 432G, 439G (unless equivalent courses were taken at the undergraduate level).

B. One indicated two-course sequence from each of three of the following areas:

1. Algebra: 417G-517
2. Analysis: 432G-531, 432G-532, 450G-550,
3. Applied Mathematics: 435G-535, 470G-570, 529-530
4. Topology-Geometry: 439G-539, 423G-523 439G-523
5. Computer Science: 442G-541, 443G-543

Other sequences used to meet this requirement must be approved by the Departmental Graduate Committee.

C. A working knowledge of a higher level programming language such as BASIC or FORTRAN (unless obtained at the undergraduate level).

A student may, upon approval of the departmental graduate committee, include in his/her program a maximum of six semester hours of coursework from a related discipline.

The research tool requirement may be fulfilled with a foreign language, a mathematics reading course, or computer science. For specific details, contact a graduate student advisor in the Department of Mathematics.

If the candidate elects the non-thesis option, satisfactory completion of a one-hour written examination over each of the three sequences chosen to satisfy item B above is required. The eligible candidate must have completed (or be scheduled to complete by the end of the current academic term) the last course in each of the sequences selected. If the candidate elects the thesis option, then the final written examination is based on only two of the aforementioned areas. An oral thesis defense is required in lieu of the written examination in the third area.

### Master of Arts in Education (Mathematics major or minor)

Since this program is designed for the secondary school mathematics teacher, students following it must satisfy all requirements for standard high school certification. Adequate preparation for a major in mathematics consists of an undergraduate teaching major in mathematics which includes, in addition to a calculus sequence, coursework in linear algebra and at least two of the following three areas: abstract algebra, geometry, analysis or advanced calculus. For a minor in mathematics, preparation should include at least an undergraduate teaching minor in mathematics with post-calculus coursework including linear algebra and one of the three mentioned areas.

Students majoring in mathematics must take 21 hours of mathematics including a course in each of the following areas: geometry, analysis, algebra. Upon approval of the graduate committee, 18 hours may satisfy the above requirement provided the student has previously completed Math 317, 323, and 327 (or the equivalent). A minor in mathematics must include at least 12 hours of mathematics. The remainder of the required 30 hours will be taken in professional education courses.

Neither a thesis nor a research tool is required; however, Education 500--Research Methods is required as one of the professional education courses. An oral final examination, based on the coursework and related concepts, is required.

### Master of Arts in Education (Middle grades education major)

The following courses are appropriate for students who have middle grades certification in mathematics: Math 403G, Math 411G, Math 413G, Math 501, Math 502. Other courses may be appropriate depending on the individual's background. Contact the Department regarding such courses.

### Graduate Courses in Mathematics

- 500 Readings in Mathematics.** 1 to 3 hours.  
Prerequisite: Undergraduate major in mathematics.  
Students read and present papers that have appeared in (or have been accepted by) mathematical journals. Topics covered are determined by areas of interest.
- 517 Topics from Algebra.** 3 hours.  
Prerequisite: Math 417.  
Theory of rings, fields, and vector spaces. Topics include: polynomial rings; principal ideal domains; unique factorization domains; field extensions; Galois theory.
- 523 Topics from Geometry.** 3 hours.  
Prerequisite: Undergraduate geometry and permission of instructor. Geometry of special lines and points;

isometrics; similarities; inversion; applications.

- 529 Mathematical Statistics I.** 3 hours.  
Prerequisites: Math 431 or Math 327, and permission of instructor.  
Axiomatic development of the theory of probability. Introduction to Markov chains; random variables, distributions, transformations. Limit theorems and various modes of convergence.
- 530 Mathematical Statistics II.** 3 hours.  
Prerequisite: Math 529.  
Statistical inference. Point estimates and their properties; Bayes estimates; Cramer-Rao inequality; interval estimates; hypothesis testing; linear models; analysis of variance; non-parametric inference.
- 531 Advanced Differential Equations.** 3 hours.  
Prerequisites: Math 331, 431.  
Power series solutions; existence and uniqueness theorems; stability and Liapunov's method; regular singular points; perturbations of periodic solutions.
- 532 Real Analysis.** 3 hours.  
Prerequisite: Math 432.  
Function spaces, additive set functions; outer measure; measurable functions; integration.
- 535 Advanced Applied Mathematics I.** 3 hours.  
Prerequisites: Math 331, 431.  
Eigenvalue and boundary value problems; orthogonal expansions in function spaces; classical polynomials; Sturm-Liouville theory; Fourier and Laplace transforms.
- 536 Advanced Applied Mathematics II.** 3 hours.  
Prerequisite: Math 535.  
Integral equations; calculus of variations; maximization of linear functionals; maximum gradient method.
- 539 Topology II.** 3 hours.  
Prerequisite: Math 439.  
Homotopy; homology theory.
- 550 Complex Analysis.** 3 hours.  
Prerequisites: Math 432, 450.  
Analytic continuation; conformal mapping; Riemann surfaces; and uni-valent functions.
- 560 Functional Analysis.** 3 hours.  
Prerequisite: Math 432.  
Theory of abstract linear spaces. Topics include: normed vector spaces; inner product spaces; Hilbert spaces; open mapping and closed graph theorems; Banach-Steinhaus theorem; weak and weak-topologies.
- 570 Advanced Topics in Operations Research.** 3 hours.  
Prerequisites: Math 432, 470, or consent of instructor.  
Specific area(s) of operations research.
- 590 Special Topics in Mathematics.** 3 hours.  
Prerequisite: Permission of instructor.
- 599 Thesis Research and Writing.** 6 hours.
- 600 Maintaining Matriculation.** 1 to 6 hours.

**Additional 500-level Math courses acceptable for**

### the Master of Arts in Education:

- 501 Introduction to Probability and Statistics I.** 3 hours.  
Prerequisite: Permission of instructor.  
Combinations and permutations; basic theorems or probability; mathematical expectations; random variable and basic probability distributions; central limit theorem.
- 502 Introduction to Probability and Statistics II.** 3 hours.  
Prerequisite: Math 203 or 329 or 501; or permission of instructor  
Review of linear algebra; Markov chains; decision theory; linear programming and game theory.
- 503 Introduction to Analysis.** 3 hours.  
Examination of selected topics in elementary calculus including sequences, series, limits, continuity, the derivative, and the Riemann integral. Introductory material includes logic, set theory, and functions.
- 504 Computer Applications to Problems in Mathematics.** 3 hours.  
Computer techniques and solutions of problems in mathematics including calculus, applied statistics, simulation, linear programming, game theory and linear algebra.

### These 400-level math courses may be taken for graduate credit:

- 403G Geometry for Elementary Teachers.** 3 hours.  
Prerequisites: Math 211, 212, or equivalent.  
Contemporary topics including symmetry, translations, the metric system, etc. (For elementary or middle school education majors only).
- 405G Numerical Analysis I.** 3 hours.  
Prerequisites: Math 327, CS 245-Fortran, or equivalent.  
Roots of equations, linear operators, polynomial approximation, interpolation, numerical differentiation and integration. Algorithmic computer solutions of problems will be required.
- 406G Numerical Analysis II.** 3 hours.  
Prerequisites: Math 307, 331, and 405  
The solution of linear systems by direct and iterative methods, matrix inversion, the calculation of eigenvalues and eigen-vectors of matrices. Boundary value problems in ordinary differential equations. Algorithmic computer solution of problems will be required.
- 411G Problem Solving for Elementary and Middle School Teachers.** 3 hours.  
Prerequisites: CS 230, and Math 403 or 323.  
Integration of concepts developed in algebra, geometry, computer science, logic, statistics, probability, and elementary number theory. Students will be encouraged to use various problems solving strategies and models and to create related problems of their own.
- 413G Algebra and Computing for Elementary Teachers.** 3 hours.  
Prerequisite: Math 212 or equivalent.  
Algebraic properties and relationships of our number systems, algebraic functions, introduction to computing including programming in BASIC, applications of computing in algebra. (For elementary or middle school education majors only.)

- 415G Algebra and Number Theory.** 3 hours.  
Prerequisite: Math 315 or 317.  
Survey of modern algebra and number theory. Includes number systems, divisibility, congruences, groups and their application to number theory.
- 417G Algebraic Systems.** 3 hours.  
Prerequisite: Math 317.  
Theory of groups.
- 423G Geometry II.** 3 hours.  
Prerequisite: Math 323.  
An axiomatic development of plane hyperbolic geometry which presupposes a development of absolute geometry.
- 429G Probability and Statistics II.** 3 hours.  
Prerequisite: Math 329.  
Sampling distributions, statistical inference; point and interval estimation, properties of estimators; hypothesis testing; regression and correlation; analysis of variance; and non-parametric methods.
- 431G Intermediate Analysis I.** 3 hours.  
Prerequisite: Math 317.  
Sequences; continuity; elementary topological concepts; series.
- 432G Intermediate Analysis II.** 3 hours.  
Prerequisite: Math 431.  
Sequences and series of functions; Riemann-Stieltjes Integrals; Elementary functional analysis: Introduction to Hilbert and Banach Spaces.
- 435G Partial Differential Equations.** 3 hours.  
Prerequisites: Math 307, 327, and 331.  
Equations of first and second order; elliptic, hyperbolic and parabolic equations of mathematical physics using separation of variables and Fourier series.
- 439G Topology.** 3 hours.  
Prerequisite: Math 317 or permission of instructor.  
Topological spaces; mappings; separation of axioms; compactness; connectedness; arcwise connectedness; metric spaces.
- 450G Complex Variables.** 3 hours.  
Prerequisite: Math 327.  
Complex number plane; analytic functions of a complex variable; integration; power series; calculus of residues; conformal representation; applications of analytic function theory.
- 470G Introduction to Operations Research.** 3 hours.  
Prerequisite: Math 307 and 327 or permission of instructor.  
Principles and techniques of operations research including linear programming, integer programming, quality theory, sensitivity analysis, and dynamic programming. (on demand)
- 475G Selected Topics in Mathematics.** 1 to 3 hours.  
Prerequisite: Permission of instructor. Significant problems and developments of current interest.

## DEPARTMENT OF PHYSICS AND ASTRONOMY

**THOMPSON COMPLEX-CENTRAL WING  
ROOM 246 (502) 745-4357**

**Martin Houston, Acting Head**

### Graduate Faculty

**Professors: D. Bryant, K. Hackney, R. Hackney, R. Scott, G. Vourvopoulos**

**Assistant Professor: D. Harper**

**Degrees Offered:** Master of Arts in Education (Physics minor).

### Master of Arts in Education

The Department offers three program options leading to the Master of Arts in Education; a physics minor with a minimum of 12 hours, science area major with a minimum of 18 hours, and a math-science major with a minimum of 18 hours. Each of these programs may include physics and astronomy courses which familiarize the teacher with modern instructional techniques and curricula, and strengthen the academic background. In all cases, the remainder of the 30 hours will be taken in professional education.

(See physics and astronomy courses specifically for students pursuing the Master of Arts in Education degree.)

### Graduate Courses in Physics and Astronomy

- 510 Methods of Mathematical Physics I.** 3 hours.  
Prerequisite: Differential Equations.  
Selected topics from the mathematical methods of classical physics.
- 520 Atomic and Molecular Spectra.** 3 hours.  
Prerequisite: Phys 480.  
The structure of atomic and molecular spectra including quantum mechanical energy states, wave mechanical rules for combining momenta and magnetic moments, the Stark and Zeeman effect.
- 530 Statistical Mechanics.** 3 hours.  
Prerequisites: Phys 450, 480.  
Statistical theories of many body systems and their thermodynamic consequences. Topics include the Boltzmann equation, Liouville's theorem phase space, ensemble theory, entropy and probability, etc.
- 540 Electromagnetic Theory.** 3 hours.  
Prerequisite: Phys 440.  
Electrostatics, magnetostatics, and potential theory; Maxwell's electrodynamics; the theory of wave optics,

refraction, interference and diffraction; radiation of electric and magnetic multi-pole fields.

- 550 Classical Mechanics.** 3 hours.  
Prerequisite: Phys 450.  
Dynamics of particles and rigid bodies, the methods of Lagrange and Hamilton, the Hamilton-Jacobi equation, and the theory of small vibrations.
- 580 Quantum Theory.** 3 hours.  
Prerequisite: Phys 480.  
Wave and matrix mechanics, general operator methods, angular momentum, symmetry principles and conservation theorems, variational principle and elementary perturbation theory.
- 598 Graduate Seminar.** 1 hour.  
Discussion of recent and current literature on developments in experimental and theoretical physics.
- 660 Theory of Solids.** 3 hours.  
Prerequisite: Phys 480.  
Matter in the condensed state emphasizing quantum mechanical aspects, the behavior of electrons in solids and the thermal and magnetic properties of matter.
- 670 Theoretical Nuclear Physics.** 3 hours.  
Prerequisite: Phys 480.  
Static properties of nuclei; descriptive aspects of radioactivity and nuclear reactions; systematic of nuclear energies; nuclear models, decay, reactions, and forces.
- 675 Advanced Topics in Physics.** 1 to 3 hours.  
Directed study under supervision of a faculty member. May be repeated with different topics.

**The following 400-level courses may be taken for graduate credit:**

- 404G Experimental Physics 4. Optics.** 1 hour.  
Corequisite: Phys 441G  
The conclusions and concepts of optics and techniques of experimental optics.
- 406G Experimental Physics 5. Solid State.** 1 hour.  
Corequisite: Phys 460G.  
Includes solid state experimental techniques and demonstrations from lecture material.
- 407G Experimental Physics 6. Nuclear.** 1 hour.  
Prerequisite: Phys 302.  
Experience with modern nuclear detection equipment, examination of some nuclear properties via experimental methods, and demonstration of nuclear radiation as an analytical research tool.
- 409G Experimental Physics 7. Research Techniques.** 2 hours.  
Prerequisite: Two years of college physics.  
Laboratory techniques in experimental research. Includes drawing and fabrication of apparatus, technical photography, and statistical treatment of data.
- 414G Introductory Astrophysics.** 4 hours.  
Prerequisites: Two years of college physics and permission of the instructor.  
Topics in solar system and stellar astrophysics. Includes radiation theory, solar phenomena; the fundamentals of
- radio astronomy, pulsars, quasars, and cosmic X-ray sources, etc.
- 418G Computers and Physical Measurement.** 3 hours.  
Study of the application of the computer in the physics lab.
- 431G Radiation Biophysics.** 4 hours. (Also, Biology 431)  
Prerequisites: Phys 201-202, or Phys 231-232.  
The properties of the various forms of radiation and their interactions with, and effects on, living matter. Laboratory offers training in monitoring ionizing radiations and techniques of radioactive isotopes.
- 440G Electromagnetism I.** 3 hours.  
Introduction to the study of classical electromagnetic fields, including electrostatics. (fall)
- 441G Optics.** 3 hours.  
Corequisite: Phys 404G  
Prerequisite: One year of college physics and one year of calculus.  
Geometrical and physical optics including wave propagation, refraction, dispersion, diffraction, and polarization.
- 443G Lasers and Modern Optics.** 4 hours.  
Prerequisites 441 & 404 or consent of instructor.  
Study of laser systems and electro-optical devices such as frequency doublers. Course will include hands-on projects with laser systems. 3 hrs. lecture; 2 hr. lab.
- 445G Electromagnetism II.** 3 hours.  
Study of classical electrodynamics with emphasis on Maxwell's equations, electromagnetic waves, dispersion and radiation.
- 450G Classical Mechanics II.** 3 hours.  
A continuation of Phys 350, includes motion in central potentials, dynamics of systems of particles, rigid body motion.
- 460G Solid State Physics.** 3 hours.  
Prerequisite: Phys 320.  
Corequisite: Phys 406.  
Theory of solids. Topics include geometrical and X-ray crystallography. Maxwell-Boltzmann and Fermi-Dirac statistics, free electron theory of metals, Brillouin zones, band model of semi-conductors, and the Hall effect.
- 465G Geophysics.** 3 hours.  
(Also cross-listed as Geol 465)  
Prerequisites: Geol 111 and one year of college physics or permission of the instructor.  
General and exploration geophysics. Topics include the origin of the earth and the solar system, the earth's interior, gravity and isostasy, seismology, upper atmosphere, continents and ocean basins, etc.
- 470G Nuclear Physics.** 3 hours.  
Corequisite: Phys 407G.  
Prerequisite: Phys 320.  
Properties of the nucleus including nuclear forces, alpha emission, radio-activity, fundamental particles, and particle accelerators.
- 475G Selected Topics in Physics.** 1 to 3 hours.  
Directed study under the supervision of a faculty member. May be repeated with different topic.

- 480G Quantum Mechanics.** 3 hours.  
Prerequisites: Phys 320, 350, 450.  
Fundamental principles of quantum mechanics including the hydrogen and helium atoms, the harmonic oscillator, and the Schrodinger wave equation.

**Courses which may be taken for graduate credit toward the Physics minor, Science Area major, and Math-Science major under the MA in Education:**

- 501 Classical Developments in Physics.** 3 hours.  
Physics for junior high and high school teachers covers the discovery of physical laws, the origin of forces, motion, energy, momentum, conservation, principles, wave phenomena, and electromagnetics.
- 502 Modern Developments in Physics.** 3 hours.  
Physics for junior high and high school teachers. Covers atomic structure, the nucleus, elementary particles, probability and uncertainty, and special relativity. Emphasizes the impact of twentieth century discoveries on the foundations of physical law.
- 503 Physics Demonstrations and Laboratory Exercises.** 3 hours.  
Designed to acquaint the junior high and high school teacher with laboratory equipment and demonstrations for use in secondary education. Utilization of laboratory library containing approximately sixty experiments, in place.
- 505 Investigations in Physics.** 3 hours.  
Topics of individual interest relating to the teaching of physics.

## DEPARTMENT OF PUBLIC HEALTH

SCIENCE AND TECHNOLOGY HALL  
ROOM 412 (502) 745-4797

J. David Dunn, Head

### Graduate Faculty

**Professors:** R. Baum, R. Biggerstaff, D. Dunn, C. Higgins, G. Lohr, J. Price, R. Wilson

**Associate Professors:** E. Meyers,  
T. Nicholson, N. Schira

**Degrees Offered:** Master of Arts in Education (Health major and minor), Master of Science in Health (Public Health).

The program leading to the Master of Arts in Education with a major or minor in health is designed to prepare students for positions as (1) health educators in junior and senior high schools, (2) coordinators of school health programs, and (3) administrators and supervisors of school health programs. The applicant must hold a valid teaching certificate and have a minimum of a minor in health. Applicants who hold a valid teaching certificate but have not completed a recognized minor in health may be conditionally admitted if they have completed a minimum of 12 semester hours of undergraduate coursework in health and/or related courses.

The program leading to a Master of Science in Health (Public Health) is designed to meet the needs of a wide range of health professionals (e.g., public health educators, nurses, environmentalists, administrators, industrial health personnel, nutritionists, dental hygienists, and other allied health professionals) who desire graduate education in public health. The flexibility of the program allows for individual consideration of student needs, expectations, and career objectives. To pursue the Master of Science in Health (Public Health), each applicant must submit at least a minor in health or adequate preparation in the sciences basic to health. Some options may have additional requirements.

### Master of Arts in Education (Health major or minor)

Students pursuing a major in health must complete 18 hours in health—including Community Health 520, Health Education 545, and 567, and Safety 570. Both Plan A (thesis) and Plan B (non-thesis) are available. For a minor in health students must complete a minimum of 12 hours in health, including Health Education 545 and 567. The additional hours in health must be chosen in consultation with the graduate advisor. The remaining coursework will be taken in professional education.

### Master of Science in Health (Public Health)

Candidates for the MS in Health must complete a minimum of 33 hours of coursework consisting of the core of 18 hours: Community Health 481G, 520, 582, 583, and 599 (thesis) or 546 (internship); the research tool, Community Health 501; and 12 hours of restricted electives which must be taken in one of the four fields of specialization: public health education, health care administration, environmental health, or gerontology. All elective coursework must be approved by the graduate advisor prior to enrollment.

Students choosing the health care administration option must have completed 6.0 semester hours of financial and managerial accounting, 3.0 semester hours of principles of management and 3.0 hours of

micro economics. Applicants with these deficiencies may be admitted contingent upon completion of this coursework. In addition, students who have not completed an undergraduate program approved by AUPHA will be required to take graduate coursework in addition to the 33.0 semester hours normally required in the program.

## Graduate Courses in Public Health

### Community Health

- 501 Analysis of Research in Health and Safety.** 3 hours.  
Methods, materials, techniques, and planning of research studies used and conducted by the profession.
- 520 Vital and Medical Statistics.** 3 hours.  
Application of statistical techniques to health and safety data. Emphasizes basic principles and techniques in designing and analyzing health problems.
- 530 Independent Investigations in Community Health.** 1 to 6 hours.  
Research problems or projects in the area of community health.
- 546 Graduate Internship.** 1 to 6 hours.  
Supervised, full-time experience in a facility or agency approved by the Department of Public Health. A maximum of six hours may be earned.
- 580 History and Philosophy of Public Health.** 3 hours.  
Development and scope of public health within a historical and philosophical context.
- 581 Methods in Public Health Education.** 3 hours.  
The roles and functions of community health educators.
- 582 Epidemiology: Practice and Theory.** 3 hours.  
Prerequisite: 3 hours of graduate level statistics.  
Applications of epidemiological principles to representative occurrences of communicable and noncommunicable disease. Emphasizes problem solving and interpretation.
- 583 Public Health Administration.** 3 hours.  
Advanced concepts of organization, administration and management of public health agencies and programs.
- 585 International Health.** 3 hours.  
Analyzes international health problems, including the development and administration of the World Health Organization. Covers critical health problems of both developed and underdeveloped countries. Emphasizes effective intervention strategies.
- 587 Health Behavior.** 3 hours.  
Models of positive health within the individual's life style. Includes types of illnesses and factors influencing health behavior.
- 588 Seminar in Public Health.** 3 hours.  
Current issues in public health.
- 590 Public Health Law.** 3 hours.  
The judicial system and the development, enactment and enforcement of laws as they relate to public health.

**599 Thesis Research and Writing.** 6 hours.

**600 Maintaining Matriculation.** 1 to 6 hours.

**The following 400-level courses may be taken for graduate credit:**

- 466G Clinical Health Education.** 3 hours.  
Multidisciplinary approaches for health educators in a clinical situation. Includes education of patient, health facility personnel and family. Also covers program development and discharge counseling. May include field trip.
- 481G Environmental Factors of Health Problems.** 3 hours.  
Prerequisites: HISft 384, 3 hours of Biol, and 3 hours of Chem.  
The environment, and its relationship to disease causation. Includes the ecology of health and disease, air and water pollution, insect vector and rodent control, noise pollution, population imbalance, and consumer protection. Field trips required.

### Health Care Administration

- 530 Independent Investigations in Health Care Administration.** 1 to 6 hours.  
Research problems or projects in the area of health care administration.
- 540 Health Care Organization and Management.** 3 hours.  
Organization and management principles, theories and practices in the health care environment. The U.S. health care system, the administrator as a leader, and issues that include facilities operations and evaluation, and health administration research.
- 541 Health Care Marketing Principles and Practices.** 3 hours.  
Marketing principles, theories, and practices in the health care environment. Structured opportunities to study health care marketing literature and to develop skills in marketing plan development.
- 542 Health Care Human Resources Administration.** 3 hours.  
Principles and practices of Human Resources Administration in the health care field. The unique characteristics of professional, technical, skilled and unskilled health care workers explored and emphasized.
- 544 Health Care Systems Administration.** 3 hours.  
The systems approach to effective and efficient delivery of health services. Analysis and evaluation of health care delivery system components. Decision making in health care organizations.
- 546 Graduate Internship.** 1 to 6 hours.  
Supervised, full-time experience in a facility or in an agency approved by the Department of Public Health. A maximum of six hours may be earned.
- 584 Health Policy and Planning.** 3 hours.  
Concepts and methods of health planning with emphasis on the "certificate of need" requirement and program evaluation.
- 586 Health Economics.** 3 hours.



Economic principles applied to the study of health care facilities, health services and manpower.

**These 400-level courses may be taken for graduate credit:**

- 441G Legal Aspects of Health Care.** 3 hours.  
Examination of the judicial system, legislative process, and the development, enactment and enforcement of laws as they relate to the delivery of health care and the health care industry.
- 445G Health Care Finance.** 3 hours.  
Introductory course in the methods of financing the delivery of health care services in the U.S. Includes budgetary methods and financial management techniques for controlling service costs to both provider and consumer.

**Health Education**

- 530 Independent Investigations in School Health.** 1 to 6 hours.  
Research problems or projects in the area of school health.
- 545 The Health Education Curriculum.** 3 hours.  
Prerequisite: Ed 580.  
Review of health curriculum guides and curriculum studies in health education. Laboratory work in construction of curriculum guides.
- 567 Administration and Supervision of Health and Safety Programs.** 3 hours.  
Responsibilities, activities, and problems of administering and supervising health and safety programs within and among the school and other community agencies.

**These 400-level courses may be taken for graduate credit:**

- 443G Health Problems of the Aged.** 3 hours.  
Prerequisite: HISft 260.  
Covers ecological factors affecting human health and longevity, current health problems, and research on health and disease as they relate to the aged.
- 444G Death Education.** 3 hours.  
Man's relationship to death and dying, coming to terms with eventual death, coping with death of loved ones and with fear of death. Includes suicide prevention. Field trips are required.
- 447G Human Values and the Health Sciences.** 3 hours.  
Analysis of the difficult ethical, legal, and social dilemmas confronting the health care delivery system, patients, medical practitioners, and other health care professionals in contemporary American society.
- 460G School and Community Health Workshop.** 3 hours.  
Prerequisite: Permission of instructor.  
Emphasizes the coordination of school and community health programs and personnel in seeking solutions for health problems.
- 461G School Health Organization.** 3 hours.  
Standards and criteria for the three phases of the school health program: health services, healthful school environment, and health instruction. Emphasizes coordina-

tion of the total school health program. Visitation in public schools.

- 462G Folk Medicine.** 3 hours.  
Historical circumstances, associations, and logic of traditional non-scientific medical practices.
- 463G Consumer Health.** 3 hours.  
Prerequisite: HE 260.  
Benefits and/or hazards of and criteria for selection of health related products and services. Analysis of methods and techniques of health frauds. May include field trips.
- 464G Women's Health.** 3 hours.  
Prerequisites: Permission of instructor  
An analysis of the major health problems of contemporary women, with a special emphasis on health promotion, disease prevention, and consumer health concerns.
- 465G Health and Safety in the Elementary School.** 3 hours.  
Prerequisite: Three hours of health.  
Nature and purpose of school health and safety in the elementary school, including curriculum development, instructional content areas, appraising students' health, and evaluation.
- 469G Critical Issues in Health and Safety.** 3 hours.  
Prerequisites: HE 260 and CH 381.  
Research and discussion of specific local, national, and world wide health and safety problems. (This course may be offered under the following subtitles: Drug Abuse Education; Sex Education; and Industrial Safety.)

**Safety**

- 530 Independent Investigations in Safety.** 1 to 6 hours.  
Research problems of projects in the area of safety.
- 570 School and Community Safety Programs.** 3 hours.  
Responsibilities, activities, and problems of school and community safety programs. Emphasizes pupil transportation programs. Also includes home, fire, traffic and transportation, industrial and public safety.

**These 400-level courses may be taken for graduate credit:**

- 470G Driver Education and Traffic Safety II.** 3 hours.  
Prerequisite: Sfty 370.  
Management of classroom and laboratory phases of the high school driver and traffic safety education program. Emphasizes simulation and range programs.
- 471G Advanced Studies in Driver Education.** 3 hours.  
Prerequisite: Sfty 470.  
Advanced instructional technology to meet the needs of the driver and safety education program. Emphasizes behavioral approaches to traffic safety education.

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 Joe Rains (student) Antioch, Tennessee

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Thomas C. Meredith

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Carl R. Martray	Dean, College of Education and Behavioral Sciences
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Michael B. Binder	Dean of University Libraries
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## GRADUATE FACULTY

## POTTER COLLEGE OF ARTS, HUMANITIES AND SOCIAL SCIENCES

## ART

Coakes, Michelle D.	MFA, Northern Illinois University Assistant Professor
Fernandez, Leo A.	MFA, Claremont Graduate School, Professor
Forrester, Charles, H.	MFA, University of Oregon, Professor
Klein, Michael	Ph.D., Columbia University, Associate Professor
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## COMMUNICATION AND BROADCASTING

Caillouet, Larry	Ph.D., University of Illinois, Associate Professor
Capps, Randall	Ed.D., University of Virginia, Professor
Garmon, Cecile E.	Ph.D., Vanderbilt University, Associate Professor
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Kell, Carl L.	Ph.D., University of Kansas, Professor
O'Connor, J. Regis	Ph.D., Indiana University, Professor
Payne, Kay E.	Ed.D., Vanderbilt University, Assistant Professor
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Wicklander, Dale	Ph.D., University of Minnesota, Professor
Winn, Larry	Ph.D., Indiana University, Professor

## ENGLISH

Carr, Patricia	Ph.D., Tulane University, Associate Professor
Crouther, Lou-Ann	Ph.D., Indiana University, Assistant Professor
Davis, Nancy H.	Ph.D., Northwestern University, Professor
Dill, Lesa	Ph.D., University of Georgia, Assistant Professor
Eckard, Ronald	Ed.D., Ball State University, Professor
Flynn, James S.	Ph.D., Auburn University, Professor
Fridy, Wilford E.	Ph.D., University of Kentucky, Professor
Glaser, Joseph A.	Ph.D., University of Texas, Professor
Green, Katherine	Ph.D., Georgia State University Assistant Professor
Hagaman, John A.	D.A., Carnegie-Mellon University, Associate Professor
Heldman, James M.	Ph.D., University of North Carolina, Professor
Hellstrom, Ward	Ph.D., University of Illinois, Professor
Lenihan, Jack	Ph.D., Notre Dame University, Assistant Professor
Millichap, Joseph	Ph.D., University of Notre Dame, Professor
Mosby, Charmaine	Ph.D., University of North Carolina, Professor

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Professor

Pelz, Karen

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Schneider, Karen

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Professor

Spurlock, John H.

Ph.D., University of Louisville, Professor

Steele, Frank P.

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## GOVERNMENT

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Masannat, George S.

Ph.D., University of Oklahoma, Professor

Parker, John David

Ph.D., University of Georgia, Professor

Petersen, John H.

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Ph.D., University of Michigan, Associate  
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Harrington, J. Drew

Ph.D., University of Kentucky, Professor

Haynes, Robert V.

Ph.D., Rice University, Professor

Jackson, Carlton L.

Ph.D., University of Georgia, Professor

Lee, David

Ph.D., Ohio State University, Professor

Lucas, Marion B.

Ph.D., University of South Carolina,  
Professor

Murphy, Frederick, I.

Ph.D., University of Florida, Professor

Phillips, Hugh D.

Ph.D., Vanderbilt University, Assistant  
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Salisbury, Richard V.

Ph.D., University of Kansas, Professor

Stone, Richard G., Jr.,

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Thacker, Jack W., Jr.,

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Professor

Thompson, Jason

Ph.D., University of Chicago, Assistant  
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Troutman, Richard L.

Ph.D., University of Kentucky, Professor

Welgel, Richard D.

Ph.D., University of Delaware, Professor

## MODERN LANGUAGES AND INTERCULTURAL STUDIES

Babcock, James C.

Ph.D., Vanderbilt University, Professor

Baldwin, Thomas, P.

Ph.D., University of Wisconsin, Professor

Brady, Erika

Ph.D., Indiana University, Assistant  
Professor

Collins, Camilla A.

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Professor

Egloff, Karin

Ph.D., University of Indiana, Assistant  
Professor

Keyes, Cheryl

Ph.D., Indiana University, Assistant  
Professor

Montell, Lynwood

Ph.D., Indiana University, Professor

- Love, Nathan** Ph.D., Indiana University, Associate Professor
- Miller, Jim Wayne** Ph.D., Vanderbilt University, Professor
- Padilla, Raul H.** Ph.D., University of Illinois, Associate Professor
- Stewart, Melissa** Ph.D., Johns Hopkins University, Assistant Professor
- Williams, Michael Ann** Ph.D., University of Pennsylvania, Assistant Professor

## MUSIC

- Campbell, F. Kent** Ed.D., University of Illinois, Professor
- Kallstrom, Michael J.** DM, Florida State, Associate Professor
- Kelsey, David** MM, Western Kentucky University, Associate Professor
- Kersenbaum, Sylvia** Artist Diploma, Academia De Santa Cecilia (Rome), Professor
- McKercher, Gary** D.M.A., University of Southern California, Assistant Professor
- Norton, Christopher** D.M.A., Louisiana University, Assistant Professor
- Reardon, Colleen A.** Ph.D., U.C.L.A., Assistant Professor
- Scott, Marshall** D.M.A., University of Wisconsin-Madison, Assistant Professor
- Smith, Charles** D.M.A., George Peabody, Professor
- Stites, Joseph** M.S., University of Illinois, Assistant Professor
- Swanson, Robyn K.** DME, University of Northern Colorado, Associate Professor
- Volkman, Elizabeth** MM, Julliard, Associate Professor

## PHILOSOPHY AND RELIGION

- Anderson, Alan** Ph.D., University of Chicago, Professor
- Garrett, Jan Edward** Ph.D., University of Minnesota, Associate Professor
- Howe, E. Margaret** Ph.D., University of Manchester, Professor
- Long, John E.** Ph.D., Brandeis University, Associate Professor
- Mayhew, Larry D.** Ph.D., Vanderbilt, University, Professor
- Schoen, Edward L.** Ph.D., University of Southern California, Professor
- Seidler, Michael J.** Ph.D., St. Louis University, Associate Professor
- Trafton, Joseph L.** Ph.D., Duke University, Professor
- Tuck, Donald R.** Ph.D., University of Iowa, Professor
- Veenker, Ronald A.** Ph.D., Hebrew Union College, Professor
- Vos, Arvin G.** Ph.D., University of Toronto, Professor

## SOCIOLOGY AND ANTHROPOLOGY

- Baali, Fuad G.** Ph.D., Louisiana State University, Professor
- Bohlander, Edward** Ph.D., Ohio State University, Professor
- Dunn, Thomas P.** Ph.D., University of Kentucky, Professor
- Faine, John R.** Ph.D., University of Iowa, Professor
- Goetting, Ann** Ph.D., Western Michigan State University, Professor
- Grimm, James W.** Ph.D., University of Illinois, Professor
- Groce, Stephen D.** Ph.D., University of Tennessee, Assistant Professor
- Kalab, Kathleen A.** Ph.D., Vanderbilt University, Professor
- Newhart, Lynn** Ph.D., North Carolina State University, Assistant Professor
- Krenzlin, Joan L.** Ph.D., University of Wisconsin, Professor

- Schock, Jack M.** Ph.D., State University of New York, Professor
- Tuthill, Stuart B.** Ph.D., University of Kentucky, Associate Professor
- Wozniak, Paul R.** Ph.D., University of Massachusetts, Professor

## THEATRE AND DANCE

- Leonard, William E.** Ph.D., Ohio State University, Professor

## COLLEGE OF BUSINESS ADMINISTRATION

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- Aldridge, Charles R.** DBA, University of Kentucky, Assistant Professor
- Hall, Jack O., Jr.,** Ph.D., University of Missouri, Professor
- Hansen, Robert** D.B.A., Indiana University, Professor
- Philhours, Joel** Ph.D., Kansas State University, Professor
- Manger, Nace** D.B.A., Southern Illinois University-Carbondale, Assistant Professor
- Smith, Duane** Ph.D., Texas A & M University, Assistant Professor
- White, Steven** Ph.D., University of Arkansas, Assistant Professor

### ECONOMICS

- Borland, Melvin V.** Ph.D., Washington University, Associate Professor
- Davis, William W.** Ph.D., University of Kentucky, Associate Professor
- Goff, Brian Leon** Ph.D., George Mason University, Assistant Professor
- Howsen, Roy, M.** Ph.D., University of Arkansas, Associate Professor
- Kim, H. Youn** Ph.D., University of Cincinnati, Associate Professor
- Myers, Daniel A.** Ph.D., Vanderbilt University, Assistant Professor
- Noser, Thomas C.** Ph.D., University of Alabama, Assistant Professor
- Pulsinelli, Robert W.** Ph.D., Rutgers University, Professor
- Ramsey, James** Ph.D., University of Kentucky, Professor
- Roberts, Charles A** Ph.D., University of Georgia, Associate Professor
- Valinezhad, Moosa** Ph.D., Georgia State University, Assistant Professor
- Wassom, John C.** Ph.D., Indiana University, Professor
- Wisley, Thomas** Ph.D., Purdue University, Associate Professor

### FINANCE AND CIS

- Stallard, John J.** Ph.D., Ohio State University, Professor
- Thapa, S. B.** Ph.D., Georgia State University, Assistant Professor

### MANAGEMENT

- Renas, Stanley R.** DBA, Georgia State University, Associate Professor

## MARKETING

- Fugate, Douglas L. Ph.D., University of Missouri-Columbia, Associate Professor  
 Millman, Ronald E. D.B.A., Arizona State University, Associate Professor

## COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCES

## EDUCATIONAL LEADERSHIP

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 Cline, H. Dwight Ed.D., University of Kentucky, Professor  
 Devaney, Susan B. Ed.D., University of North Carolina-Greensboro, Assistant Professor  
 Dinkmeyer, Don Ph.D., University of Florida, Associate Professor  
 Greer, Richard M. Ph.D., University of Missouri-Columbia, Associate Professor  
 Hayden, Delbert J. Ph.D., Florida State University, Professor  
 Hughey, Aaron Ed.D. Northern Illinois University, Assistant Professor  
 James, Susan Ed.D., East Texas University, Assistant Professor  
 Meredith, Thomas Ed.D., University of Mississippi, Professor  
 Prickett, Robert Ed.D., East Texas University, Associate Professor  
 Schnacke, Stephen B. Ed.D., Ball State University, Professor  
 Sheeley, Vernon L. Ph.D., University of Wyoming, Professor  
 Smith, R. Douglas Ph.D., Southern Illinois University, Assistant Professor  
 Stickie, Fred Ph.D., Iowa State University, Professor  
 Traugott, William M. Ph.D., Kansas State University, Professor  
 Wagner, Christopher Ph.D., University of Minnesota, Assistant Professor  
 Wallman, Dwiliss Ed.D., West Virginia University, Assistant Professor  
 Wilder, Jerry, R. Ed.D., George Peabody College, Professor  
 Williams, Eileen Ph.D., University of Virginia, Assistant Professor

## HOME ECONOMICS AND FAMILY LIVING

- Atkins, T. Virginia Ph.D., University of Alabama, Associate Professor  
 Casto, Marilyn D. Ph.D., University of North Carolina, Associate Professor  
 Clark, Sallye R. Ph.D., Texas Woman's University, Professor  
 Ehrcke, Louis A. Ph.D., University of Tennessee, Professor  
 Fong, Louella J. Ph.D., Purdue University, Professor  
 Fulwood, Betty M. Ed.D., Oklahoma State University, Associate Professor  
 Gibbs, Shirley O. Ed.D., Oklahoma State University, Associate Professor  
 Jenkins, Martha C. Ph.D., Ohio State University, Professor  
 Moore, Violet Ph.D., Southern Illinois University, Professor  
 Rasdall, Joyce O. Ph.D., Ohio State University, Professor

## PHYSICAL EDUCATION AND RECREATION

- Crews, Thaddeus, R. Ph.D., University of Missouri, Professor  
 Crume, Charles T. Ed.D., University of Kentucky, Professor  
 Daniel, Charles V. Ed.D., Vanderbilt University, Professor  
 Kummer, William G. Ph.D., University of Utah, Professor  
 Little, Alton D. Ed.D., University of Georgia, Professor  
 Meadors, William J. D.P.E., Springfield College, Professor  
 Oglesby, Burch Ph.D., Ohio University, Professor  
 Spencer, Steven Ed.D., University of Arkansas, Assistant Professor

## PSYCHOLOGY

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 Blotta, Joseph Ph.D., University of New York, Assistant Professor  
 Bruni, John Ph.D., Texas Christian University, Assistant Professor  
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 Clark, Lynn Fred Ph.D., University of Kansas, Professor  
 Craig, James R. Ph.D., Iowa State University, Professor  
 Elson, Charles L. Ed.D., University of Kentucky, Associate Professor  
 Hughes, Kevin Ph.D., University of Alabama, Assistant Professor  
 Jones, Elizabeth Ph.D., University of Georgia, Assistant Professor  
 Kuhlenschmidt, Sally Ph.D., Purdue University, Associate Professor  
 Lemerise, Elizabeth Ph.D., New School for Social Research, Assistant Professor  
 Layne, C. Clinton Ph.D., Southern Illinois University, Professor  
 Layne, Lois E. Ph.D., Southern Illinois University, Professor  
 Martray, Carl R. Ph.D., University of Alabama, Professor  
 McFarland, Sam G. Ph.D., Vanderbilt University, Professor  
 Mendel, Raymond M. Ph.D., Iowa State University, Professor  
 Metze, Leroy P. Ph.D., University of Houston, Professor  
 Miller, Richard L. Ph.D., University of Houston, Professor  
 Mutter, Sharon Ph.D., George Washington University, Assistant Professor  
 O'Connor, John R. Ph.D., George Peabody College, Professor  
 Pfohl, William F. Psy.D., Rutgers University, Professor  
 Poe, Retta E. Ph.D., University of Missouri-Columbia, Professor  
 Pope-Tarrance, Jacqueline Ph.D., University of Louisville, Assistant Professor  
 Ramsay, Shula Ph.D., University of Virginia, Assistant Professor  
 Roenker, Daniel L. Ph.D., Kansas State University, Professor  
 Shoenfelt, Elizabeth Ph.D., Louisiana State University, Professor  
 Simpson, Robert E. Ph.D., University of Alabama, Professor  
 Wilder, Joyce Ed.D., Peabody College of Vanderbilt University, Assistant Professor

## TEACHER EDUCATION

- Becker, James P. Ph.D., Florida State University, Professor

Counts, Edward L.	Ed.D., East Texas State University, Associate Professor
Crisp, Mary	M.A., University of Kentucky, Associate Professor
Daniel, Tabitha	Ed.D., George Peabody University, Assistant Professor.
Etienne, Joseph	Ph.D., Southern Illinois University, Assistant Professor
Evans, Charles S.	Ph.D., University of Missouri - Columbia, Associate Professor
Ferguson, Janice L.	Ph.D., University of Oklahoma, Associate Professor
Hatfield, Karen	Ed.D., Ball State University, Assistant Professor
Hicks, Reta D.	Ed.D., University of Southern Mississippi, Professor
Kacer, Barbara	Ph.D., University of Iowa, Assistant Professor
Keresting, Frank	Ed.D., Vanderbilt University, Associate Professor
Koper, James A.	Ed.D., University of Missouri, Professor
Little, Cassandra	Ph.D., University of Pittsburgh, Assistant Professor
McKenzie, Robert G.	Ph.D., University of Iowa, Professor
Minix, Nancy A.	Ed.D., Vanderbilt University, Associate Professor
Otto, Robert A.	Ph.D., University of Iowa, Professor
Panchyshyn, Robert	Ph.D., State University of Iowa, Professor
Pankratz, Roger	Ph.D., Ohio State University, Professor
Pierce, Judy	Ed.D., Southern Illinois University, Assistant Professor
Ritter, Donald E.	Ed.D., Indiana University, Associate Professor
Roberts, Julia L.	Ed.D., Oklahoma State University, Associate Professor
Roberts, Richard,	Ed.D., Oklahoma State University, Professor
Ruff, Ann C.	Ed.D., Indiana University, Associate Professor
Schliefer, Jacqueline	Ed.D., University of Nebraska-Lincoln, Assistant Professor
Simmons, Herbert N.	Ed.D., University of Kansas, Professor
Smith, Robert C.	Ph.D., Louisiana State University, Associate Professor
Stallion, Brenda	Ph.D., Ohio State University, Assistant Professor
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Terry, Kay	Ed.D., Northwestern State University of Louisiana, Assistant Professor
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## OGDEN COLLEGE OF SCIENCE, TECHNOLOGY, AND HEALTH

### AGRICULTURE

Bedel, Al	Ph.D., University of Tennessee, Associate Professor
Brown, Linda	Ph.D., University of Georgia, Assistant Professor
Coffey, David	Ed.D., Virginia Polytechnic Institute and State University, Associate Professor
Gray, Elmer	Ph.D., Cornell University, Professor
Hughes, Luther B., Jr.	Ph.D., Purdue University, Professor

Johnson, Ray	Ph.D., North Carolina State University, Professor
Jones, Gordon F.	Ph.D., University of Tennessee, Professor
Martin, James M.	Ph.D., Ohio State University, Associate Professor
Pennington, Jodie A.	Ph.D., University of Illinois, Associate Professor
Schneider, Robert M.	Ed.D., Michigan State University, Professor
Stiles, David A.	Ph.D., Southern Illinois University, Associate Professor
Worthington, James P.	Ph.D., Ohio State University, Professor

### BIOLOGY

Balak, Kenneth	Ph.D., University of South Carolina, Assistant Professor
Davis, Cheryl	Ph.D., Wake Forest University, Assistant Professor
Dawson, Nancy	Ph.D., University of Tennessee, Assistant Professor
Dillard, Gary E.	Ph.D., North Carolina State University, Professor
Dunham, Valgene L.	Ph.D., Syracuse University, Professor
Elliott, Larry P.	Ph.D., University of Wisconsin, Professor
Ferrell, Blaine	Ph.D., Louisiana State University, Professor
Gleason, Larry N.	Ph.D., University of North Carolina, Professor
Houston, Martin R.	Ph.D., Vanderbilt University, Professor
Hoyt, Robert D.	Ph.D., University of Louisville, Professor
Kent, Jeffrey	Ph.D., University of Illinois, Assistant Professor
Kupchella, Charles E.	Ph.D., St. Bonaventure, Professor
Nicely, Kenneth A.	Ph.D., North Carolina State University, Professor
Prins, Rudolph	Ph.D., University of Louisville, Professor
Rinehart, Claire	Ph.D., University of Georgia, Assistant Professor
Toman, Frank R.	Ph.D., Kansas State University, Professor
Winstead, Joe E.	Ph.D., University of Texas, Professor

### CHEMISTRY

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Green, Thomas K.	Ph.D., University of Tennessee, Assistant Professor
Hartman, David R.	Ph.D., Virginia Polytechnic Institute, Professor
Henrickson, Charles H.	Ph.D., State University of Iowa, Professor
Hessley, Rita K.	Ph.D., University of Missouri-Rolla, Professor
Holman, Robert W.	Ph.D., University of Nebraska-Lincoln, Assistant Professor
Hunter, Norman W.	Ed.D., University of Toledo, Professor
Pan, Wei-Ping	Ph.D., Michigan Technical University, Associate Professor
Reasoner, John W.	Ph.D., State University of Iowa, Professor
Riley, John T.	Ph.D., University of Kentucky, Professor
Shank, Lowell, W.	Ph.D., Ohio State University, Professor
Slocum, D. W.	Ph.D., New York University, Professor
Wilkins, Curtis	Ph.D., Michigan State University, Professor



## COMPUTER SCIENCE

- Baur, Gregory Ed.D., Indiana University, Associate Professor
- Crawford, Robert R. Ph.D., Indiana University, Professor
- Crenshaw, John H. Ph.D., Iowa State University, Professor
- Kooshesh, A. Ph.D., University of New Mexico, Assistant Professor
- Modesitt, Kenneth L. Ph.D., Washington State University, Professor
- Pigford, Darleen Ph.D., University of Florida, Associate Professor
- Shindhelm, Arthur D. Ph.D., Syracuse University, Associate Professor
- Ziegler, Uta Ph.D., Florida State University, Assistant Professor

## GEOGRAPHY AND GEOLOGY

- Ahsan, Syed Reza Ph.D., University of Florida, Professor
- Crawford, Nicholas C. Ph.D., Clark University, Professor
- Davis, James L. Ph.D., Northwestern University, Professor
- Fields, Noland E. Ph.D., Louisiana State University, Professor
- Foster, Stuart Ph.D., Ohio State, Assistant Professor
- Hoffman, Wayne L. Ph.D., University of Florida, Professor
- Kuehn, Deborah W. Ph.D., Pennsylvania State University, Assistant Professor
- Kuehn, Kenneth W. Ph.D., Pennsylvania State University, Professor
- Lowry, Mark, III Ph.D., Syracuse University, Professor
- Moore, Conrad T. Ph.D., U.C.L.A., Professor
- Petersen, Albert, Jr. Ph.D., Louisiana State University, Professor
- Trapasso, L. Michael Ph.D., Indiana State University, Associate Professor

## INDUSTRIAL TECHNOLOGY

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- Wendt, Donald D. Ed.D., University of Missouri, Professor

## MATHEMATICS

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- Brunson, Barry W. Ph.D., Indiana University, Associate Professor
- Ernst, Claus Ph.D., Florida State University, Assistant Professor
- Iraniparast, Nezam Ph.D., University of California-Davis, Associate Professor
- Lowman, Pauline Ph.D., George Peabody College, Associate Professor
- Mooney, Douglas Ph.D., University of Kansas, Assistant Professor
- Neal, David Ph.D., University of Florida, Assistant Professor
- Porter, James Ph.D., Syracuse University, Professor
- Powers, R. Glenn Ph.D., Memphis State University, Professor
- Richmond, Bettina Ph.D., Florida State University, Associate Professor

- Richmond, Thomas A. Ph.D., Washington State University, Assistant Professor
- Robinson, Mark Ph.D., University of Kentucky, Assistant Professor
- Spraker, John S. Ph.D., Indiana University, Assistant Professor
- Stokes, Joseph, F. Ph.D., George Peabody College, Professor
- Swift, Randall Ph.D., University of California - Riverside, Assistant Professor
- Weidemann, Wanda Ed.D., Vanderbilt University, Assistant Professor
- Wells, Carroll G. Ph.D., Vanderbilt University, Professor

## NURSING

- Hazzard, Mary E. Ph.D., New York University, Professor

## PHYSICS AND ASTRONOMY

- Bryant, F. Dudley Ph.D., Auburn University, Professor
- Hackney, Karen R. Ph.D., University of Alabama, Associate Professor
- Hackney, Richard L. Ph.D., University of Florida, Professor
- Harper, Douglas L. Ph.D., Vanderbilt University, Assistant Professor
- Scott, Roger Ph.D., University of Florida, Professor
- Vourvopoulos, George Ph.D., Florida State University, Professor

## PUBLIC HEALTH

- Baum, Robert H.S.D., Indiana University, Professor
- Biggerstaff, Ray, Jr. Ed.D., Indiana University, Professor
- Dunn, J. David D.Sc., Tulane University, Professor
- Higgins, C. Wayne Ph.D., University of Texas Medical Branch, Professor
- Lohr, J. Glenn H.S.D., Indiana University, Professor
- Meyers, Eugene D. Ph.D., Michigan State University, Associate Professor
- Nicholson, Thomas Ph.D., Southern Illinois University at Carbondale, Associate Professor
- Price, Jimmie O. Ed.D., University of Alabama, Professor
- Schira, Norma J. Ed.D., University of Illinois, Associate Professor
- Wilson, Richard W. D.H.S., Loma Linda University, Professor

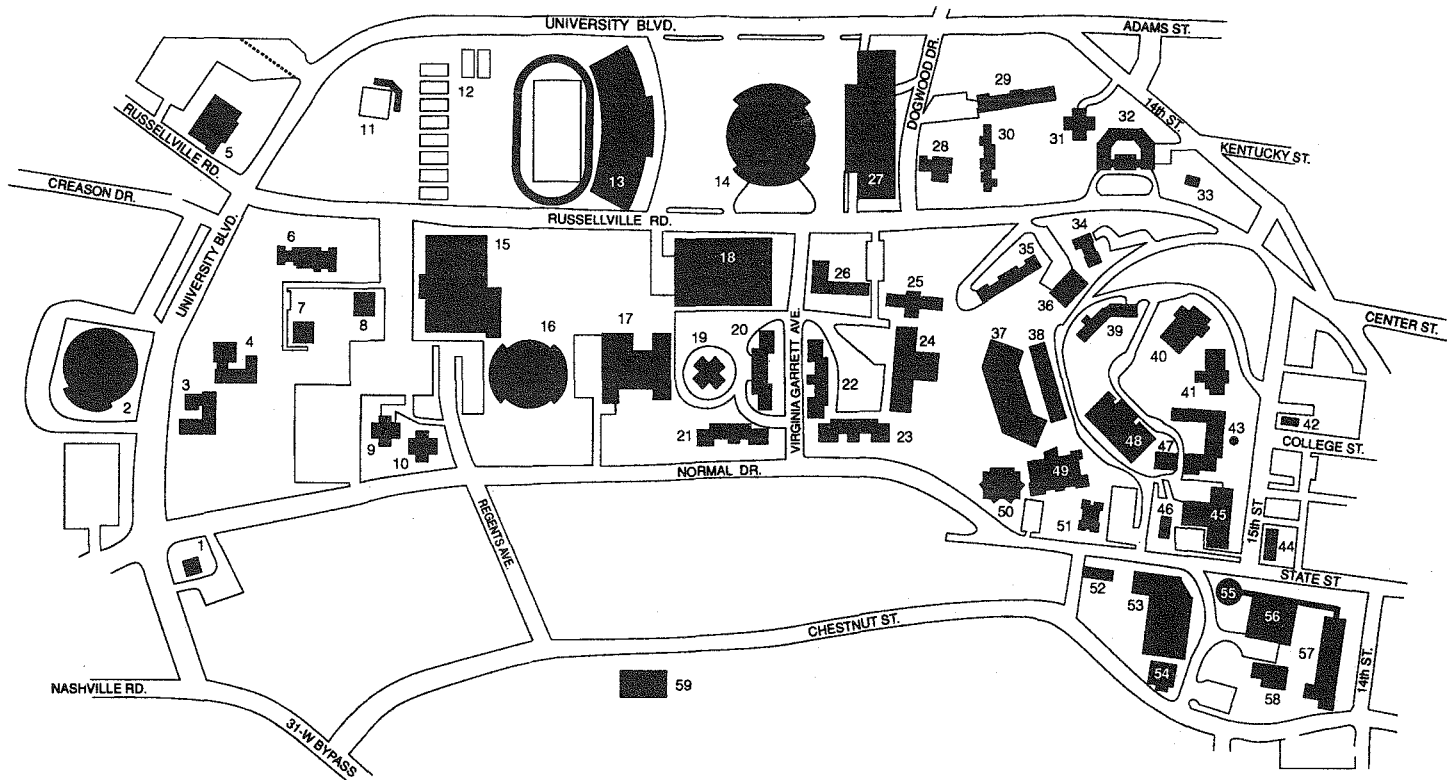
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## SUMMARY OF PROCEDURES FOR APPLICANTS SEEKING THE MASTER'S DEGREE

What To Do	Where	When
File application for admission (Form A)	Office of Graduate Studies	Well in advance of expected date of entrance
Order 1 official copy of all transcripts	From all colleges attended	Transcripts are needed at least 30 days prior to beginning of semester of entrance
Take GRE	Obtain application from University Counseling Center or Office of Graduate Studies.	Scores required for admission
Plan program of study (Form C)	Developed in cooperation with and approved by assigned departmental advisor(s) and submitted to Office of Graduate Studies for approval	Prior to enrollment in hours beyond 12, including transfers, if any
Complete research tool requirements	Check with departmental advisor and Office of Graduate Studies	During the first, or at the latest the second, term of enrollment
Apply for admission to candidacy (Form D)	Graduate Studies or departmental advisor	After the completion of 12 hours and no later than first week of semester in which student intends to graduate.
Addition or deletion of a course listed on approved program of study	See department advisor	Prior to enrollment in course to be substituted
Remove any incomplete grades	See department advisor	Incomplete (or X) grades automatically become "F" if the work is not completed within 12 weeks of the next full university term.
Take comprehensive exam	See department advisor	After admission to candidacy. Report of results due in the Office of Graduate Studies one week prior to graduation
Submit Thesis (If required)	To thesis committee, office of the appropriate Dean, and then the Office of Graduate Studies for final reading	At least three weeks prior to date of graduation
Apply for graduation and pay diploma fee	Obtain application form and pay fee to Registrar's Office	According to required deadlines. Information available from Registrar or Graduate Studies
Secure cap and gown	College Heights Bookstore (must have receipt of payment of diploma fee)	Same as deadline for payment of diploma fee
Graduation, or give notification of absence	Registrar's Office	Comply with instructions mailed to all paid candidates



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**GRADUATE STUDIES**
**APPLICATION FOR ADMISSION**

1. Full Legal Name \_\_\_\_\_ 2. \_\_\_\_\_  
(Last) (First) (Middle) (Maiden) (Soc. Sec. No.)
3. Addresses Current \_\_\_\_\_  
(No. & Street) (City) (County) (State) (Zip Code)  
 Permanent \_\_\_\_\_  
(No. & Street) (City) (County) (State) (Zip Code)
4. In an emergency, notify \_\_\_\_\_  
(Name) (Relationship) (City) (State) (Telephone)
5. Telephone Nos. Home ( ) Office ( ) 6. Sex ( ) F ( ) M
7. Birthplace \_\_\_\_\_ 8. U.S. Citizen? ( ) Yes ( ) No 9. If no, are you a permanent resident? ( ) Yes ( ) No  
(State, if U.S., or Country) Alien Reg. Number \_\_\_\_\_
10. Birthdate \_\_\_\_\_ 11. Alumnus in family ( ) Yes ( ) No See Reverse side \*  
(Month/Day/Year)
12. Place of Legal Residence \_\_\_\_\_ 13. U.S. Veteran? ( ) Yes ( ) No  
(State, if U.S., or Country)
14. Ethnic Information ( ) American Indian or Alaskan Native ( ) Asian or Pacific Islander ( ) Black ( ) Hispanic ( ) White
15. Undergraduate Degree Information: \_\_\_\_\_  
(Institution) (Degree) (Month and Year)
16. Previous Graduate Study (if any): \_\_\_\_\_  
(Institution) (Degree or Hours) (Year)
17. Previous Enrollment at Western: Earliest Date \_\_\_\_\_ Most recent date \_\_\_\_\_
18. Have you taken the G.R.E. (see reverse side)\* ( ) Yes ( ) No or G.M.A.T. ( ) Yes ( ) No 19. If yes, scores reported to WKU? ( ) Yes ( ) No
20. Employment History (begin with most recent)
- | Employer | Address | From  | To    |
|----------|---------|-------|-------|
| _____    | _____   | _____ | _____ |
| _____    | _____   | _____ | _____ |
21. Enrollment Plans: Year \_\_\_\_\_ ( ) Fall ( ) Spring ( ) Summer
22. Teacher Certification held. (a copy of all teaching certificates must accompany this application)  
 ( ) Provisional Elementary ( ) Provisional Secondary ( ) Standard Elementary ( ) Standard Secondary  
 ( ) Other \_\_\_\_\_
23. For which one of the following admission categories are you applying?  
 ( ) Degree-seeking (check one program under "Degrees Available" below; or)  
 ( ) Second master's degree only (check one program under degrees available)  
 ( ) Unclassified (pursuing coursework only)  
 ( ) Transient (for transfer to another institution)  
 ( ) Certification coursework only Area \_\_\_\_\_  
 ( ) Fifth-year (Rank II, certificate renewal)  
 ( ) Rank I, Teacher: Elementary \_\_\_\_\_ Secondary \_\_\_\_\_  
 ( ) Rank I, Guidance: Elementary \_\_\_\_\_ Secondary \_\_\_\_\_  
 ( ) Rank I, School Administration: Seeking endorsement as Supt. \_\_\_\_\_ Supv. \_\_\_\_\_ Prin. \_\_\_\_\_ DPP \_\_\_\_\_ Dir. Special Ed. \_\_\_\_\_

**DEGREES AVAILABLE**
**MASTER OF ARTS IN EDUCATION**

- ( ) Secondary \_\_\_\_\_ Education \_\_\_\_\_  
(Major) (Minor)  
 \*Education \_\_\_\_\_  
(Major) (Minor)  
 \*If Reading emphasis desired, please indicate \_\_\_\_\_
- ( ) Elementary (1-8) \_\_\_\_\_ Kindergarten Endorsement \_\_\_\_\_ Reading \_\_\_\_\_  
 \_\_\_\_\_ Exceptional Child \_\_\_\_\_ Librarian \_\_\_\_\_
- ( ) Elementary (K-4)  
 ( ) Interdisciplinary Early Childhood  
 ( ) Middle Grades (5-8)  
 ( ) Exceptional Child \_\_\_\_\_ LBD \_\_\_\_\_ TMH \_\_\_\_\_  
 ( ) School Counseling: \_\_\_\_\_ Elementary \_\_\_\_\_ Secondary \_\_\_\_\_  
 ( ) Mental Health Counseling  
 ( ) Student Affairs  
 ( ) School Business Administrator  
 ( ) General Education (non-certification program)

**MASTER OF ARTS**

- ( ) Communication  
 ( ) Economics  
 ( ) English  
 ( ) Folk Studies  
 ( ) History  
 ( ) Humanities  
 ( ) Psychology:  
     ( ) Clinical ( ) School  
     ( ) Industrial ( ) General  
 ( ) Sociology

- ( ) MASTER OF MUSIC  
 ( ) MASTER OF PROFESSIONAL ACCOUNTANCY  
 ( ) MASTER OF PUBLIC ADMIN.

**COOPERATIVE MASTERS**

- ( ) Nursing-University of Kentucky  
 ( ) Criminal Justice-Eastern Kentucky

**MASTER OF SCIENCE**

- ( ) Agriculture  
 ( ) Biology  
 ( ) Chemistry  
 ( ) City & Regional Planning  
 ( ) Communication Disorders  
 ( ) Computer Science  
 ( ) Geography  
 ( ) Health  
     ( ) Administration  
     ( ) Environment  
     ( ) Nutrition  
     ( ) Public Health Education  
 ( ) Library Science  
 ( ) Mathematics  
 ( ) Physical Education  
 ( ) Recreation

**SPECIALIST IN EDUCATION**

- ( ) Counseling ( ) School Administration  
 ( ) Elementary ( ) Student Personnel Services in Higher Education  
 ( ) Secondary

**COOPERATIVE-DOCTORAL**

- ( ) Education-University of Kentucky  
 ( ) Biology-University of Louisville  
 ( ) Chemistry-University of Louisville



## APPLICATION INSTRUCTIONS

NOTE: Credentials submitted for admission purposes become the property of the University. If the applicant does not enroll within one year, the admission file is destroyed unless the student contacts the Office of Graduate Studies.

**Degree-Seeking Students** must have forwarded to Graduate Studies and Research one **official transcript** each from the undergraduate degree-granting institution (unless WKU) and from any institution (except WKU) where course work has been pursued. The applicant who has not yet completed the undergraduate degree should have forwarded one transcript now and one after the degree is completed. Master of Arts in Education students must submit a copy of all teaching certificates at the time of application. \* **Effective January 1, 1993, the Graduate Record Examination General Test is required of all degree seeking students prior to or during the first term of enrollment, with the exception of the Master of Professional Accountancy applicants. Applicants for this degree must submit Graduate Management Admission Test scores prior to admission and enrollment in the program. If already taken, the scores should be forwarded to the Office of Graduate Studies.**

**Non-degree Students** (e.g., students applying for Rank I or Fifth-year programs) must submit transcripts as outlined above. Rank I, Rank II, and certification only students must submit a copy of all teaching certificates at the time of application.

**Transient Students** (pursuing advanced degrees at other institutions) will be mailed Form H (Visiting Student Verification), which must be completed and returned to the Office of Graduate Studies by an official of the degree-granting institution.

**Unclassified Students** (pursuing coursework only) must have forwarded to the Office of Graduate Studies an **official transcript** indicating completion of the undergraduate degree (unless earned at WKU).

## INCENTIVE AND ALUMNI GRANTS

The awarding of the incentive or alumni grant will entitle the out-of-state resident to pay the in-state registration fees. A student is only entitled to one of these grants.

An incentive grant is available to qualified students who are residents of Clay, Cheatham, Davidson, Trousdale, Williamson and Wilson counties in Tennessee and Perry, Posey, Spencer, Vanderburgh and Warrick counties in Indiana. Upon receipt of an official transcript showing the completed undergraduate degree, eligibility will be determined. (In the case of transient students, only the visiting student form (Form H) must be on file to qualify for the grant.) Eligibility must be determined before the end of the drop/add period for the semester of application. Eligibility determined after the end of the drop/add period will become effective beginning with the next semester of enrollment. Students in the unclassified category are not eligible for the incentive grant. Residents of Macon, Robertson, and Sumner counties in Tennessee will automatically receive a tuition waiver for the out-of-state portion of registration fees.

An alumni grant is available to qualified non-resident students whose parent(s), stepparent(s), legal guardian(s), or grandparent(s) completed a degree or a certified program from Western Kentucky University. Upon receipt of an official transcript showing the completed undergraduate degree and the application for the alumni grant, eligibility will be determined. (In the case of transient students, the visiting student form (Form H) must be on file to qualify for the grant.) Grant applications are available from Graduate Studies and Research upon request.

## STATEMENT OF COMPLIANCE

Western Kentucky University does not discriminate on the basis of race, color, national origin, sex, age, religion or disability, and provides, on request, reasonable accommodations including auxiliary aids and services necessary to afford an individual with a disability an equal opportunity to participate in all services, programs and activities.

If you have experienced discrimination in such educational programs or activities, written inquiries about procedures that are available at the University for consideration of complaints alleging such discrimination should be directed to the President's Office, Western Kentucky University, Bowling Green, Kentucky 42101. Inquiries about alleged discrimination also may be made directly to the Director, Office of Civil Rights, United States Department of Health, Education, and Welfare, Washington, D.C. 20201.

Inquiries about employment discrimination may be directed to the Affirmative Action Officer, Western Kentucky University, Bowling Green, Kentucky 42101, or The Commission on Human Rights, Commonwealth of Kentucky, 828 Capital Plaza Tower, Frankfort, Kentucky 40601, or Equal Employment Opportunity Commission, 1800 G Street, N.W., Washington, D.C. 20506, or Office of Federal Contract Compliance, United States Department of Labor, Washington, D.C.

Return application to:  
Office of Graduate Studies  
Western Kentucky University  
1526 Russellville Rd.  
Bowling Green, KY 42101

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Signature of Student

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Date